PURCHASE ORDER

ARVIN NORTH AMERICAN AUTOMOTIVE
1531 13th Street, Columbus, Indiana 47201 812 379 3000

D-U-N-S 00-641-4361

No. [illegible] -F

SUPPLIER . Charles Moores

SHIP TO: NORTH AMERICAN AUTOMOTIVE
1001 Hurricane St.
Franklin, IN 46131
Attn: G. Ernest

When to Ship ASAP

et30
OB Destination Date of Order 5-27-86 Ship Via Rear Truck

Terms 2% 15th and 30th. Invoices dated 1st to the 15th, received by the 20th will be paid on the 30th of the month. Invoices dated 16th to the end of the month, received by the 5th will be paid on the 15th of the following month.

QUANTITY	DESCRIPTION	PRICE
	Labor to remove 1000 gal. buried gas tank - fill hole and seal with concrete	
	Material	$1270.00
	Labor	1048.00

32/326/333

THIS PURCHASE EXEMPT FROM INDIANA STATE GROSS RETAIL TAX AND USE TAX UNDER BLANKET CERTIFICATE NO. 35-0550190 001-2

bject to all the conditions shown above and on the verse side, all of which are made a part of this order.

NORTH AMERICAN AUTOMOTIVE

PLEASE ACKNOWLEDGE THIS ORDER IMMEDIATELY

NOTE: This order number must appear on each package and on your invoice which should be sent in duplicate to NORTH AMERICAN AUTOMOTIVE, Accounts Payable, BOX NUMBER 3003, COLUMBUS, IN 47202

The applicable provisions of Executive Orders 11246, as amended, 11141 and 1176[illegible] Vietnam Era Veterans Readjustment Act of 19[illegible] and the Rehabilitation Act of 1973 are incorporated herein by specific reference.

)-050-01H

[illegible] DEPT

REMEDIAL ACTION PLAN:
FORMER FUEL OIL UNDERGROUND STORAGE TANK AREA
ARVIN NORTH AMERICAN AUTOMOTIVE
FRANKLIN, INDIANA PLANT

Prepared for
Arvin North American Automotive
1531 Thirteenth St.
Columbus, Indiana 47201

February 1993

Geraghty & Miller
Environmental Consultants
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Suite 1010
Indianapolis, Indiana 46204
(317) 231-6500

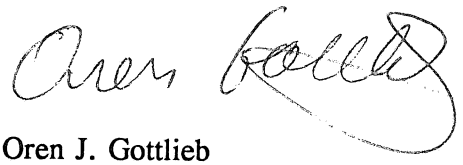
REMEDIAL ACTION PLAN:
FORMER FUEL OIL UNDERGROUND
STORAGE TANK AREA
FRANKLIN, INDIANA PLANT

February 24, 1993

Geraghty & Miller, Inc. is submitting this report to Arvin North American Automotive for work performed at Franklin, Indiana Plant. The report was prepared in conformance with Geraghty & Miller's strict quality assurance/quality control procedures to ensure that the report meets industry standards in terms of the methods used and the information presented. If you have any questions or comments concerning this report, please contact me.

Respectfully submitted,

GERAGHTY & MILLER, INC.



Oren J. Gottlieb
Principal Scientist/Associate

CONTENTS

1.0 INTRODUCTION 1

2.0 METHODOLOGY 2

3.0 RESULTS OF INVESTIGATION 4

4.0 EVALUATION OF POTENTIAL RECEPTORS 5

5.0 EVALUATION OF REMEDIAL ALTERNATIVES 7

FIGURES

1. Site Location Map.
2. Site Map.

TABLES

1. Summary of Chemical Analyses.

APPENDICES

A. Soil Boring Logs.
B. Soil Sampling Forms.
C. Chemical Analytical Reports.
D. Local Well Logs.

REMEDIAL ACTION PLAN:
FORMER FUEL OIL UNDERGROUND STORAGE TANK AREA
ARVIN NORTH AMERICAN AUTOMOTIVE
FRANKLIN, INDIANA PLANT

1.0 INTRODUCTION

This report presents the results of the investigation of a release of No. 2 fuel oil at the Arvin North American Automotive, Franklin, Indiana plant (Figure 1) and an evaluation of alternatives for remediation. Fuel oil was detected November 5, 1992 during the repair of a water main adjacent to the location of a former underground storage tank (UST). The UST had a capacity of 16,000 gallons and was reportedly removed in 1986.

The approach that was used to investigate the fuel oil release was to drill and sample soil borings adjacent to the former UST location. These borings were used to delineate the extent of petroleum hydrocarbon impacts, evaluate the types of subsurface materials present, and provide data required to evaluate the cost and effectiveness of remedial alternatives. Initially, four soil borings were drilled at the corners of the former UST location. After hydrocarbon impacts were detected in some of these soil borings, additional borings were drilled to delineate the impacts. No ground-water monitoring wells were installed since a significant transmissive layer was not detected, as will be discussed in the body of the report.

2.0 METHODOLOGY

The investigation of the former UST was conducted during the week of November 23, 1992. The investigation consisted of drilling nine soil borings to a depth of approximately 15 feet per boring. The soil borings were drilled with a hollow-stem auger drilling rig and samples were collected continuously using a split barrel core sampler (split spoon). The augers and down hole equipment used in sampling were hot pressure washed between each boring. After completion of the borings, the borings were backfilled with bentonite.

Each soil sample that was collected was logged to determine geologic properties and to evaluate whether any evidence of petroleum impacts were present. In addition, the headspace of each sample was screened in the field using an organic vapor analyzer (OVA). This screening was performed by placing a portion of the sample in a plastic Zip-loc bag, sealing the bag and letting the sample sit at room temperature for approximately 5 or 10 minutes, and measuring the organic vapor concentration in the headspace of the bag using the OVA. The location of soil borings is provided on Figure 2. Soil boring logs are in Appendix A.

Initially, four soil borings were drilled approximately north, south, east and west of the former UST. These borings show that petroleum hydrocarbons are present in soil at levels over 100 parts per million (ppm) (an informal Indiana Department of Environmental Management [IDEM] cleanup guideline) east and west of the former tank location. Therefore, additional soil borings were drilled in these directions until what appeared to be a clean perimeter was reached.

The most impacted soil sample from each soil boring based on OVA measurements and field observations was collected for analysis for total petroleum hydrocarbons (TPH). Because the chemical of concern was No. 2 fuel oil, a TPH analysis for both the purgeable (volatile) and extractable (semi-volatile) fraction was performed using USEPA SW-846 Method 8015. Samples were collected by removing a portion of the sample from the split spoon using a clean latex glove,

placing the sample in containers provided by the laboratory, placing the sample on ice in a cooler, and shipping the sample accompanied by a chain of custody form, and sealed by a chain of custody seal to the analytical laboratory (NDRC Laboratory in Richardson, Texas). Soil sampling forms and chain-of-custody forms are provided in Appendix B.

Chemical analytical reports are provided in Appendix C. An evaluation of laboratory quality control indicates that all quality control parameters were within acceptable limits. Matrix spike/matrix spike duplicate relative percent differences were less than 10 percent. Average spike recovery was between 79 percent and 100 percent. Method blank concentrations were less than method detection limits and blank spike recovery limits were between 77.9 and 108 percent. Holding times and extraction/analysis times were not exceeded on any of the samples.

3.0 RESULTS OF INVESTIGATION

The soil borings indicate that the subsurface materials consist of clayey silt containing sporadic sand layers that were generally less than two feet thick. At the approximate location of the former UST, sediments appear to be more disturbed and significantly wetter. This increased wetness may be due to water from the leaking water line that is adjacent to the former UST location.

At the soil borings closest to the former UST location, a fuel oil sheen was detected. However, no evidence of a free product layer perched on the water table was detected.

Analyses of soil samples indicated up to 133 ppm TPH at the former tank location. Further north, south, and west of the former tank location soil TPH levels were below 100 ppm. Towards the east, levels up to 320 ppm were detected. As the drilling proceeded further east, it became apparent that petroleum hydrocarbons were concentrated in thin sand stringers and that the soil above and below these thin sand stringers was not impacted by hydrocarbons. Therefore, it appears that the soil impacts are limited to the area immediately around the former tank location and that any impacts further from the tank are due to migration through extremely thin sand stringers which are clayey and silty (therefore relatively low permeability), which do not represent a potable source of ground water. Chemical analyses of soil are summarized in Table 1.

Based on the analytical data and the screening of soil samples in the soil boring logs, by interpolating between borings, it is estimated that an area of 50 feet by 20 feet by 10 feet deep contains TPH levels above 100 ppm. Therefore, the total volume of impacted soil is approximately 400 cubic yards.

4.0 EVALUATION OF POTENTIAL RECEPTORS

An evaluation has been performed to determine whether there are any significant potential impacts to human health and the environment from the petroleum hydrocarbons detected in this investigation. This evaluation consisted of obtaining well log records from the Indiana Department of Natural Resources, and reviewing a topographic map of the site and surrounding area to evaluate if there are any residences that could be affected by migration of petroleum hydrocarbons originating from the site into basements, or there any streams or surface water drainages that could be impacted by hydrocarbons detected at the site.

Well logs obtained from the Indiana Department of Natural Resources (IDNR) (Appendix D), indicate that the area around the site is served by city water. The city water is provided by the Indiana Cities Water Corporation that has a well field approximately 1 mile northeast of the site. The wells at this field are screened in sand and gravel at a depth of approximately 100 feet. The search of IDNR records indicates that there may be 24 water wells within approximately 1 mile of the site. These wells are all screened below a clay layer that extends in general from the surface to at least 30 feet deep. The closest water well recorded in IDNR files is approximately 300 feet west of the former UST area.

The soil boring logs from this project show that petroleum hydrocarbons were restricted to thin, sporadic sand layers and were underlain by unimpacted finegrained sediments. Therefore, the petroleum hydrocarbons investigated do not appear to have the potential for impacting water wells near the site.

Residences are located approximately 200 feet south of the former underground storage location. The area north, east and west of the former UST location is occupied by the plant and there is a large distance to residences (over 300 feet). The investigation has indicated that the

petroleum hydrocarbons do not extend a large distance (less than 50 feet) south of the former UST location, and, therefore, the hydrocarbons do not pose a threat to the residences through migration to basements or similar pathways.

An examination of the topographic map for the site and the surrounding area indicates that the nearest surface water drainage is approximately 1 mile away from the former UST location. Since the levels of petroleum hydrocarbons decrease in almost all directions away from the UST, and due to the great distance to the surface water drainage, it does not appear possible that the petroleum hydrocarbons detected at the UST area could affect surface water.

5.0 EVALUATION OF REMEDIAL ALTERNATIVES

The investigation has indicated that petroleum hydrocarbon impacts are limited to soil and there are no substantial, transmissive ground-water zones that are impacted. Therefore, the evaluation of remedial alternatives is restricted to soil remediation.

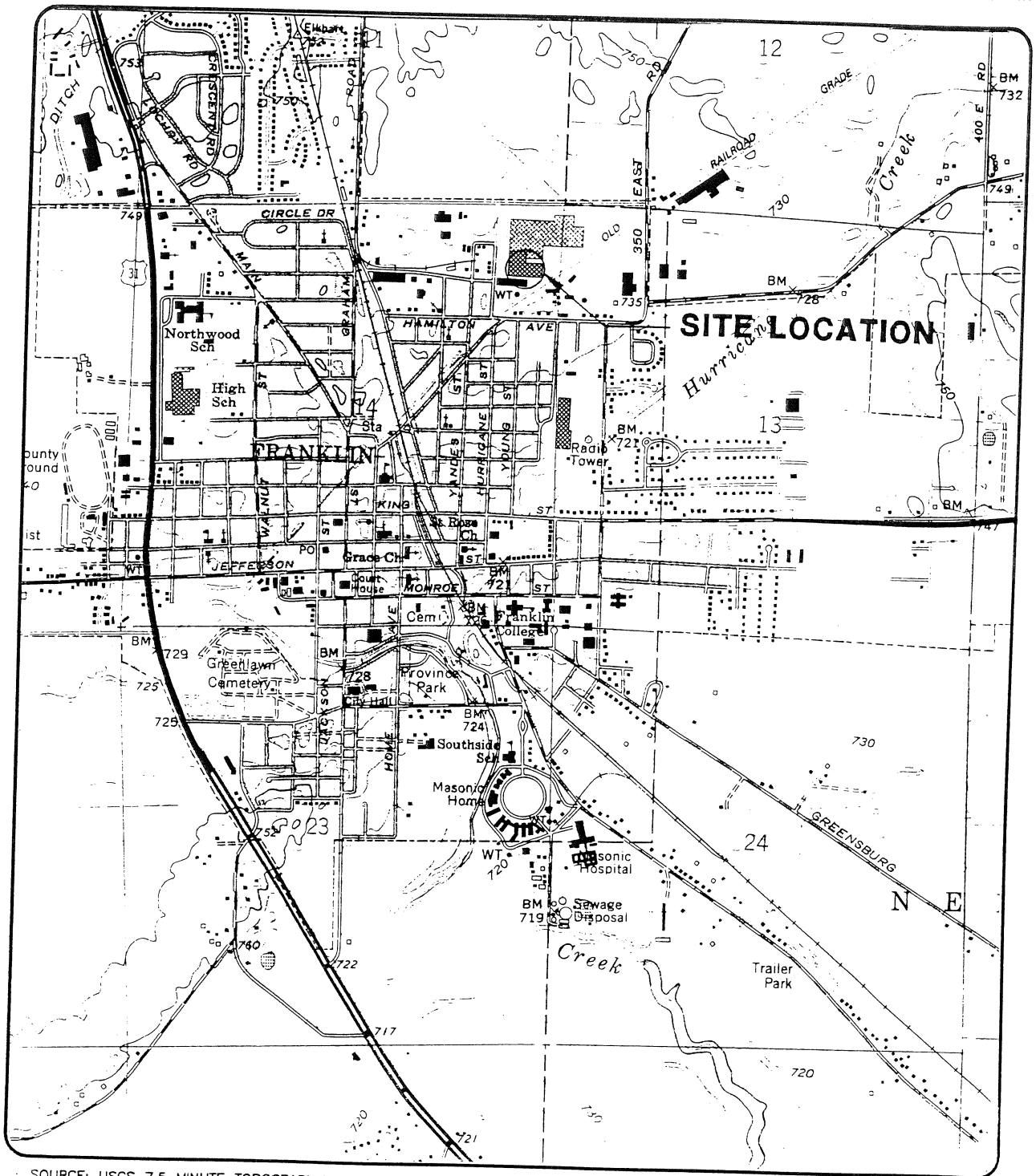
The subsurface sediments consist of clayey silt. This sediment typically has a low permeability, on the order of $10^{-1} \times 10^{-5}$ or less centimeters/second. In addition, especially around the former UST, these sediments are relatively wet. Subsurface venting is typically the most cost effective in-situ remedial technology. The low permeability and the wetness of the site sediments would make utilizing an in-situ venting type technology difficult. These technologies utilize blowers to induce a vacuum in the subsurface or force airflow through the subsurface and thereby volatilize or enhance the biodegradation of the hydrocarbons. If the site sediments were more permeable and less wet, bioventing would likely be a applicable technology since fuel oil is generally relatively degradable. However, given the subsurface conditions, this technology should probably only be utilized if more cost effective technologies are not available.

The two most commonly implemented ex-situ remedial technologies for relatively fine-grained soils are excavation of the contaminated soil and disposal of the soil at a landfill or at another location, or excavation of the soil and landfarming of the soil. Excavation and off-site disposal involves excavation using a backhoe or trackhoe until a clean perimeter (less than 100 ppm total petroleum hydrocarbon) is reached. The soil can be disposed of at a sanitary landfill licensed to accept petroleum-impacted soil or the soil can be used in asphalt blending. Facilities are available near the site for asphalt blending, however, a concern with this method of disposal its potential liability should the asphalt blending facility operate in an environmentally un-sound manner. Liability may be somewhat reduced with landfills due to the fact that there are several relatively large corporations operating landfills that may be more financially able to absorb the liability associated with disposal.

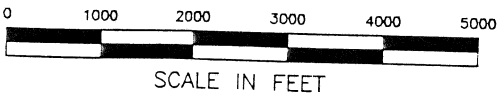
Excavation and landfarming involves excavating the soil and placing the soil within a containment structure. This containment usually includes low soil berms lined with thick plastic sheeting. Also, a sump is usually placed within the containment area to collect any water. Depending on the site wastewater handling capability, this water can usually be discharged through the plant. Discussion with Arvin indicates that the plant would be able to handle water generated from a landfarming operation. The landfarming process consists of spreading the soil in a layer approximately 1.5 feet thick and discing the soil periodically (every one to four weeks) to facilitate biodegradation of the hydrocarbons. Nutrients can also be added to facilitate biodegradation, if necessary. These nutrients would consist of commonly available fertilizer.

The principal disadvantage of the excavation and off-site disposal option is the liability associated with off-site disposal. The principal disadvantage of the landfarming option is the necessity for performing operation and maintenance which can be a burden on facility personnel. Previous experience with soils and contaminants of the type found at the former UST location indicates that levels can be reduced below 100 ppm in approximately one year by landfarming.

A comparison of costs between the excavation and off-site disposal and excavation and landfarming has been performed. A price quotation from a contractor that Geraghty & Miller has previously utilized to perform environmental contracting work was obtained. This quotation indicated that excavation and off-site disposal could be performed for $50 per cubic yard and that excavation and landfarming could be performed for $23 per cubic yard. Multiplied times the total number of cubic yards indicated to be impacted (400), the approximate costs for excavation and disposal would be $20,000 and excavation and landfarming would be $9,200. In-situ options, based on previous experience would cost on the order of $100,000 to $200,000. Therefore excavation and landfarming is the most cost effective option. However, the cost savings may be off-set by burdensome operational and maintenance requirements.



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, FRANKLIN, INDIANA QUADRANGLE, 1988



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SITE LOCATION MAP

ARVIN NORTH AMERICAN AUTOMOTIVE
FRANKLIN, INDIANA

FIGURE
1

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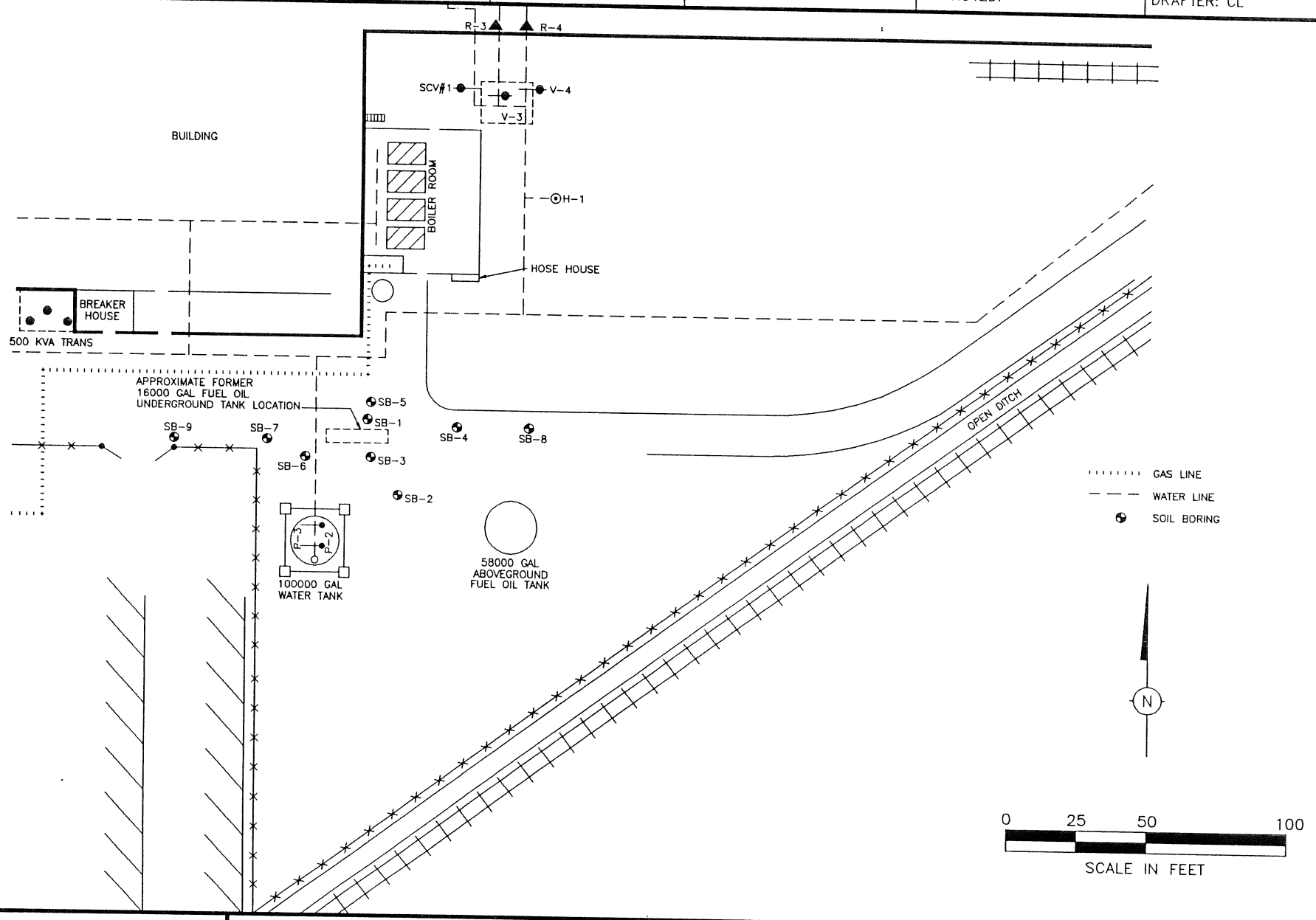

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SITE MAP

ARVIN NORTH AMERICAN AUTOMOTIVE
FRANKLIN, INDIANA

FIGURE
2

Table 1. Summary of TPH analyses of soil samples. Arvin North American Automotive, Franklin, Indiana.

Soil Boring	Depth (feet)	TPH Concentration[1]
SB-2	5-7	25
SB-3	5-7	133
SB-4	5-7	250
SB-5	7-9	0.5
SB-6	5-7	ND
SB-7	3-5	28.53
SB-8	5-7	320
SB-9	3-5	59

Note: TPH performed on sample from each boring determined most impacted by headspace analysis.

[1] All results in ppm. TPH includes purgeable and extractable fraction.

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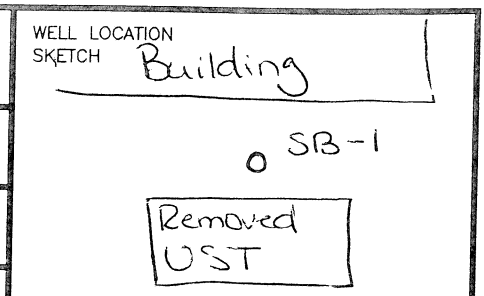
JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-1	1

WELL LOCATION SKETCH



DRILLING METHOD	SAMPLING METHOD
Hollow Stem Auger	Split Spoon
DRILLING START 11/23/92 FINISH 11/23/92	DEVEL. START FINISH
STATIC DTW 3' DTO TIME DATE	DRILLED BY Earth Exploration
ELEVATION TOC GL	LOGGED BY Robert S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Brown, non-cohesive (soft), silty sand, odorless	M	40		5 6 6 8	67	SS
	3-5				Oil smell, brown, non-cohesive (soft) silty sand gravel, clay, staining	W	.04		4 2 1 3	50	SS
	5-7				Cohesive (stiff/soft), clayey silty, odorless, grey-brown, sand & gravel	W	.15		1 1 2 1	50	SS
	7-9				Clayey silty sand and gravel, cohesive (stiff/soft) brown, ciders/slag	W	.04		0 7 1 1	50	SS
	9-11				Clay silty sand and gravel, sheen, cohesive (stiff/soft), brown, ciders/slag	W	.1		9 5 3 2	33	SS
	11-13				Gray/brown, non-cohesive (loose)/ cohesive (soft), fuel oil smell, silty sand and gravel, clayey silty sand and gravel	M	15		9 5 0 .1	50	SS
	13-15				Trace clay, silty sand and gravel, non-cohesive, tan brown, concrete, fuel oil smell, stiff	W	27		5 0 5 .4	30	SS
					Borehole abandoned by filling with bentonite						

ABBREVIATIONS: C = COARSE, M = MEDIUM, F = FINE, GRVL = GRAVEL, SND = SAND, SLT = SILT, CLY = CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-2	1 1

WELL LOCATION SKETCH: Building

Abandoned UST

SB-2

DRILLING METHOD	SAMPLING METHOD
Hollow Stem Auger	Split Spoon
DRILLING START 11/23/92 FINISH 11/23/92	DEVEL. START FINISH
STATIC DTW 9' DTO TIME DATE	DRILLED BY Earth Exploration
ELEVATION TOC GL	LOGGED BY Robert S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Musty smell, blackish brown, cohesive (soft), sand and gravel, stain	D	90		1 9 8 6	80	SS
	3-5				Cohesive (hard/stiff), clayey silty sand with brick, musty smell	D	.11		2 3 1 2	100	SS
	5-7				Clay and silt, grey-brown, cohesive (stiff), fuel oil smell	D			3 3 4 5	100	SS
	7-9				Clayey silty sand, grey-brown, musty smell, cohesive (soft)	M			1 1 1 2	100	SS
	9-11				Clayey silty sand, grey-brown, musty smell, cohesive (stiff/soft)	W			4 5 6 9	100	SS
	11-13				Tan-brown, clayey silty sand/clayey silty sand and gravel, cohesive (hard) non-cohesive (dense), no smell	W			4 9 19 39	100	SS
	13-15				Tan-brown, clayey silty sand, non-cohesive (dense), no smell	W			10 16 23 33	100	SS
					Borehole abandoned by filling with bentonite						

ABBREVIATIONS: C – COARSE, M – MEDIUM, F – FINE, GRVL – GRAVEL, SND – SAND, SLT – SILT, CLY – CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-3	1

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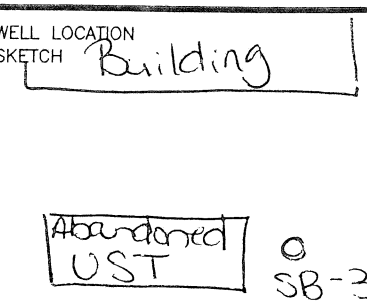

DRILLING METHOD	SAMPLING METHOD
Hollow Stem Auger	Split Spoon
DRILLING START 11/23/92 FINISH 11/23/92	DEVEL. START FINISH
STATIC DTW 3' DTO TIME DATE	DRILLED BY Earth Exploration
ELEVATION TOC GL	LOGGED BY Roberts S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Gray-black, cohesionless (loose), fuel oil smell, silty sand and gravel	M			3 4 2 2	70	SS
	3-5				Brown/black, cohesive (soft), clayey silty sand & gravel, sheen, fuel oil smell, stained	W			2 1 1 2	30	SS
	5-7				Clayey silty sand and gravel, black, cohesive(soft), sheen, fuel oil smell	W			1 2 2 1	20	SS
					Auger in rubble fill Borehole abandoned by filling with bentonite, 14" depth to water/sheen						

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GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-4	1 1

WELL LOCATION SKETCH: Building

Abandoned UST

SB-4

DRILLING METHOD	SAMPLING METHOD
Hollow Stem Auger	Split Spoon
DRILLING START 11/24/92 FINISH 11/24/92	DEVEL. START FINISH
STATIC DTW 9' DTO TIME DATE	DRILLED BY Earth Exploration
ELEVATION TOC GL	LOGGED BY Robert S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Clayey silty sand and gravel, dark brown, cohesive, staining, fuel oil smell (stiff/soft)	M	60		4 5 7 12	50	SS
	3-5				Tan-brown, clayey silty sand and gravel, cohesive (hard), fuel oil smell	D	20		3 1 1 2	60	SS
	5-7				Brown, clayey silty sand and gravel, cohesive (hard), fuel oil smell	M	30		2 2 1 2	50	SS
	7-9				Tan-brown, cohesive (stiff/soft), clayey silty sand and gravel, musty smell	W	40		2 2 2 2	60	SS
	9-11				Tan-brown, cohesive (stiff/soft), clayey silty sand and gravel, musty smell	W	15		2 4 6 12		
	11-13				Dark brown, cohesive (hard/stiff), clayey silty sand and gravel, musty smell	W	15		5 13 14 45	30	SS
	13-15				Tan-brown, cohesive (hard/stiff), clayey silty sand and gravel, musty smell Borehole abandoned by filling with bentonite	W	20		8 15 21 30	90	SS

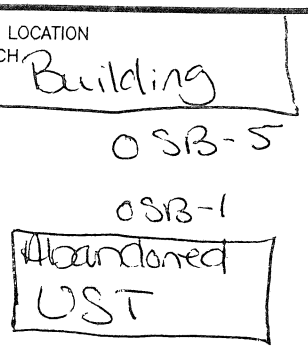
ABBREVIATIONS: C – COARSE, M – MEDIUM, F – FINE, GRVL – GRAVEL, SND – SAND, SLT – SILT, CLY – CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE 1 OF 1
IN17201	Arvin	Arvin-Franklin	SB-5	

DRILLING METHOD: Hollow Stem Auger	SAMPLING METHOD: Split Spoon
DRILLING START 11/24/92 FINISH 11/24/92	DEVEL. START FINISH
STATIC DTW 9' DTO TIME DATE	DRILLED BY: Earth Exploration
ELEVATION TOC GL	LOGGED BY: Robert S. Fedorchak

WELL LOCATION SKETCH



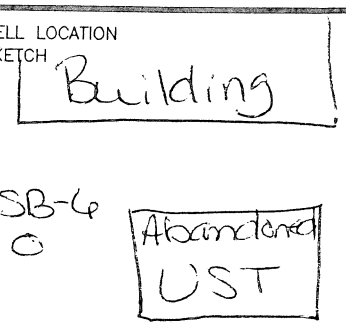
WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Black, cohesive (stiff),clayey silty sand and gravel, fuel oil smell, brick fragments, stained	D	10		6 7 25 19	80	SS
	3-5				Gray-black,brown, cohesive(stiff), clayey silty sand and gravel, fuel oil smell, stained	D	14		19 6 5 5	100	SS
	5-7				Gray-brown, clayey silty sand and gravel, cohesive(stiff/soft),fuel oil smell	D	14		4 2 3 3	85	SS
	7-9				Gray-brown, clayey silty sand and gravel, cohesive (stiff/soft), fuel oil smell	M	15		2 1 1 2	90	SS
	9-11				Tan-brown, cohesive(stiff), clayey silty sand and gravel, musty smell	W	10		2 5 7 10	90	SS
	11-13				Tan-brown, cohesive(hard), clayey silty sand and gravel, musty smell	W	0		6 12 23 17	100	SS
	13-15				Tan-brown, clayey silty sand and gravel, cohesive (hard), musty smell	W			10 33 35 42	100	SS
					Borehole abandoned by filling with bentonite						

ABBREVIATIONS: C = COARSE, M = MEDIUM, F = FINE, GRVL = GRAVEL, SND = SAND, SLT = SILT, CLY = CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-6	1 1

WELL LOCATION SKETCH



DRILLING METHOD	SAMPLING METHOD
Hollow Stem Auger	Split Spoon
DRILLING START 11/24/92 FINISH	DEVEL. START FINISH
STATIC DTW 1' DTO TIME DATE	DRILLED BY Earth Exploration
ELEVATION TOC GL	LOGGED BY Robert S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Brownish blackish clayey silty sand and gravel, cohesive (soft) stained	W			2 2 2 2	30	SS
	3-5				Blackish-brown and tan-brown, stained clayey silty sand and gravel, cohesive (soft)/cohesive (stiff)	W			2 2 2 4	100	SS
	5-7				Blackish-brown and tan, stained, clayey silty sand and gravel, cohesive (soft)	W			7 2 2 3	100	SS
	7-9				Tan-brown, clayey silty sand and gravel, cohesive (soft)	W			1 1 1 1	100	SS
	9-11				Tan-brown, clayey silty sand and gravel, cohesive (soft)	W			1 1 4 5	100	SS
	11-13				Tan-brown, clayey silty sand and gravel, cohesive (hard)	W			5 5 10 16	100	SS
	13-15				Tan-brown, clayey silty sand and gravel/silty sand, cohesive (soft)/non-cohesive (dense)	W/M			5 10 29 33	100	SS
					Borehole abandoned by filling with bentonite						

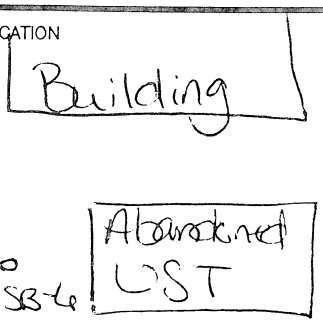
ABBREVIATIONS: C – COARSE, M – MEDIUM, F – FINE, GRVL – GRAVEL, SND – SAND, SLT – SILT, CLY – CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-7	1 1

DRILLING METHOD: Hollow Stem Auger	SAMPLING METHOD: Split Spoon
DRILLING START: 11/24/92 FINISH: 11/24/92	DEVEL. START / FINISH:
STATIC DTW / DTO / TIME / DATE:	DRILLED BY: Earth Exploration
ELEVATION TOC / GL:	LOGGED BY: Robert S. Fedorchak

WELL LOCATION SKETCH



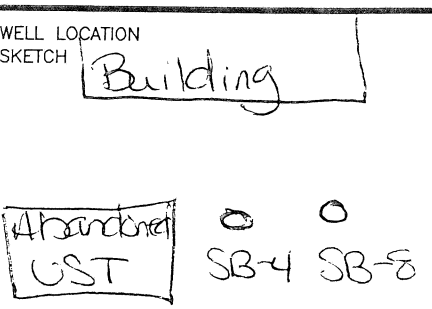
WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Brown/black, clayey silty sand and gravel, cohesive (soft)/non-cohesive (loose), fuel oil smell, can see product in stained areas	M	100		2 5 5 4	100	SS
	3-5				Tan-brown, clayey silty sand and gravel, cohesive (soft), fuel oil smell	M	200		1 2 2 3	90	SS
	5-7				Same as above	M	130		2 2 3 4	100	SS
	7-9				Tan-brown, silty clayey sand, cohesive (stiff), fuel oil smell	D	14		2 4 6 9	100	SS
	9-11				Same as above	D	5		6 6 12 22	100	SS
	11-13				Reddish-brown, clayey silty sand and gravel, cohesive (hard), no smell	D	8		7 9 14 16		SS
	13-15				Reddish-brown, silty clayey sand and gravel, cohesive (hard/soft), no smell Borehole abandoned by filling with bentonite	M	0		4 13 41 30		SS

ABBREVIATIONS: C – COARSE, M – MEDIUM, F – FINE, GRVL – GRAVEL, SND – SAND, SLT – SILT, CLY – CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE OF
IN17201	Arvin	Arvin-Franklin	SB-8	1 1

WELL LOCATION SKETCH



DRILLING METHOD	SAMPLING METHOD
Hollow Stem Auger	Split Spoon
DRILLING START 11/24/92 FINISH 11/24/92	DEVEL. START FINISH
STATIC DTW 1' DTO TIME DATE	DRILLED BY Earth Exploration
ELEVATION TOC GL	LOGGED BY Robert S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Brown/black, fuel oil smell, sheen, stain, clayey silty sand and gravel cohesive(soft)	W	210		2 1 1 1	50	SS
	3-5				Same as above	W	200		1 0 0 1	10	SS
	5-7				Same as above (red brick)	W	200		2 2 2 3	40	SS
	7-9				Grayish blackish brown, clayey silty sand and gravel, cohesive (soft), stain on outside of sample, fuel oil smell, brown (dark inside)	W	150		2 2 2 3	100	SS
	9-11				Same as above (reddish-brown inside)	W	50		2 3 6 12	100	SS
					Borehole abandoned by filling with bentonite						

ABBREVIATIONS: C = COARSE, M = MEDIUM, F = FINE, GRVL = GRAVEL, SND = SAND, SLT = SILT, CLY = CLAY

GERAGHTY & MILLER, INC.
Environmental Services

JOB NUMBER	CLIENT	LOCATION	WELL NO.	PAGE 1 OF 1	WELL LOCATION SKETCH
IN17201	Arvin	Arvin-Franklin	SB-9		

DRILLING METHOD: Hollow Stem Auger	SAMPLING METHOD: Split Spoon
DRILLING START: 11/25/92 FINISH: 11/25/92	DEVEL. START / FINISH
STATIC DTW / DTO: 9' TIME / DATE	DRILLED BY: Earth Exploration
ELEVATION TOC / GL	LOGGED BY: Robert S. Fedorchak

WELL CONST.	DEPTH FEET	SAMPLE INTERVAL	NAME	CLASS	DESCRIPTION: COLOR, DENSITY, GRAIN SIZE, ODOR, PLASTICITY STAINING, REMARKS	MOISTURE CONTENT	OVA (PPM)	SAMPLE NO.	BLOWS	RECOVERY PERCENT	SAMPLE TYPE
	1-3				Tan-brown/black, clayey silty sand and gravel, silty sand and gravel, cohesive (hard)/non-cohesive (loose) fuel oil smell	D	200		3 12 8 6	100	SS
	3-5				Brown, clayey silty sand and gravel, cohesive (hard), fuel oil smell stained	D	200		2 2 3 6	100	SS
	5-7				Brown, clayey silty sand and gravel	M	35		2 2 2 3	100	SS
	7-9				Tan brown, clayey silty sand and gravel, cohesive (stiff)	D	10		2 2 3 5	100	SS
	9-11				Tan brown, clayey silty sand and gravel, stained, cohesive (soft), fuel oil smell	W	5		2 3 5 10	20	SS
	11-13				Tan brown, clayey silty sand and gravel, stained, cohesive (stiff/soft)	M	5		6 6 9 12	100	SS
	13-15				Tan brown, silty clayey sand and gravel, cohesive (stiff/soft), stained (slightly)	M/D	5		5 27 37 42	100	SS
					Borehole abandoned by filling with bentonite and concrete at surface with the asphalt						

ABBREVIATIONS: C = COARSE, M = MEDIUM, F = FINE, GRVL = GRAVEL, SND = SAND, SLT = SILT, CLY = CLAY

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/23/92, 2:30pm
Site Location Arvin- Franklin
Sample Location SB-2

Sample Designation SB-2-(5-7')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger
Sampling Method Split-Spoon
Decontamination Method Phosphate-free soap w/ water rinse.

SOIL DESCRIPTION

Color Gray-brown Staining No
Description silty clay, cohesive(stiff), dry, fuel oil smell

SAMPLE DESCRIPTION

Sample Depth 5-7' Sample Volume (2) 40ml + (1) 1L
Other (pH, HNU, OVA etc) None

Constituents Sampled	Container Description (G&M Lab)
TPH (8015M)	(2) 40ml vials + (1) 1L amber jar

Remarks
Sampling Personnel R.S. Greenbaum

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/23/92, 4pm
Site Location Arvin - Franklin
Sample Location SB-3

Sample Designation SB-3-(5-7')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger

Sampling Method Split-Spoon
Decontamination Method Phosphate-free soap w/ water rinse

SOIL DESCRIPTION

Color Black Staining Yes

Description Clayey silty sand & gravel, cohesive (soft), sheen, fuel oil smell

SAMPLE DESCRIPTION

Sample Depth 5-7' Sample Volume (2) 40ml + (1) 1L
Other (pH, HNU, OVA etc) none

Constituents Sampled	Container Description (G&M Lab)
TPH (8015M)	(2) 40ml vials + (1) 1L amber jar

Remarks
Sampling Personnel R.S. [illegible]

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/24/92, 8:30am
Site Location Arvin- Franklin
Sample Location SB-4

Sample Designation SB-4-(5-7')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger
Sampling Method Split-Spoon
Decontamination Method Phosphate free soap w/water rinse

SOIL DESCRIPTION

Color Brown Staining NO
Description Clayey Silty sand & gravel, cohesive (hard), fuel oil smell

SAMPLE DESCRIPTION

Sample Depth 5-7' Sample Volume (2) 40ml & (1) 1L
Other (pH, HNU, OVA etc) OVA → 30ppm

Constituents Sampled	Container Description (G&M Lab)
TPH-(8015M)	(2) 40ml vials + (1) 1L amber jar

Remarks
Sampling Personnel R.S. Fedorchak

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/24/92, 9:45am
Site Location Arvin - Franklin
Sample Location SB-5

Sample Designation SB-5-(7-9')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger

Sampling Method Split-Spoon
Decontamination Method Phosphate free soap w/ water rinse

SOIL DESCRIPTION

Color Gray-Brown Staining No

Description Clayey Silty sand & gravel, cohesive (soft) fuel oil smell

SAMPLE DESCRIPTION

Sample Depth 7-9' Sample Volume (2) 40ml [redacted] + (1) 1 L
Other (pH, HNU, OVA etc) OVA → 15

Constituents Sampled	Container Description (G&M Lab)
TPH - (8015M)	(2) 40ml vials + (1) 1L amber jar

Remarks
Sampling Personnel R.S. Faircloth

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/24/92, 11am
Site Location Arvin - Franklin
Sample Location SB-6

Sample Designation SB-6-(5-7')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger

Sampling Method Split-Spoon
Decontamination Method Phosphate free soap w/water rinse

SOIL DESCRIPTION

Color Blackish tanish Brown Staining ~~no~~ Yes

Description Clayey Silty sand & gravel, cohesive(soft), wet

SAMPLE DESCRIPTION

Sample Depth 5-7' Sample Volume (2) 40ml + (1) 1L
Other (pH, HNU, OVA etc) none

Constituents Sampled	Container Description (G&M Lab)
TPH (8015M)	(2) 40ml vials + (1) 1L Amber Jar

Remarks
Sampling Personnel R.S. Fosdahl

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/24/92, 2:30 pm
Site Location Arvin - Franklin
Sample Location SB-7

Sample Designation SB-7-(3-5')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger

Sampling Method Split-Spoon
Decontamination Method Phosphate free soap w/ water rinse

SOIL DESCRIPTION

Color tanish brown Staining no

Description Clayey Silty sand & gravel, cohesive(soft), fueloil smell, moist

SAMPLE DESCRIPTION

Sample Depth 3-5' Sample Volume (2) 40ml & (1) 1L
Other (pH, HNU, OVA etc) OVA - 300ppm

Constituents Sampled	Container Description (G&M Lab)
TPH (8015M)	(2) 40ml vials & (1) 1L amber jar.

Remarks
Sampling Personnel R.S. Fredericks

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/24/92, 4pm
Site Location Arvin - Franklin
Sample Location SB-8

Sample Designation SB-8-(5-7')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger
Sampling Method Split-Spoon
Decontamination Method Phosphate-free soap w/ water rinse

SOIL DESCRIPTION

Color Brown / Black Staining Yes
Description Clayey Silty sand & gravel, cohesive(soft), sheen, fuel oil smell, wet

SAMPLE DESCRIPTION

Sample Depth 5-7' Sample Volume (2) 40ml + (1) 1L
Other (pH, HNU, OVA etc) OVA -> 200ppm

Constituents Sampled	Container Description (G&M Lab)
TPH - (8015 M)	(2) 40ml vials + (1) 1L amber Jar

Remarks
Sampling Personnel R.S. [illegible]

GERAGHTY & MILLER, INC.
Environmental Services

SOIL SAMPLING LOG

Project/No. IN 17201 Date/Time 11/25/92, 8am
Site Location Arvin - Franklin
Sample Location SB-9

Sample Designation SB-9-(3-5')

Sample Location Sketch

SAMPLING METHODS

Method of Reaching Sample Depth Hollow-Stem Auger
Sampling Method Split-Spoon
Decontamination Method Phosphate free soap w/water rinse

SOIL DESCRIPTION

Color Brown Staining Yes
Description Clayey Silty sand & gravel, cohesive(hard), fuel oil smell, dry

SAMPLE DESCRIPTION

Sample Depth 3-5' Sample Volume (2) 40ml + (1) 1L
Other (pH, HNU, OVA etc) OVA → 200ppm

Constituents Sampled	Container Description (G&M Lab)
TPH - (8015M)	(2) 40ml vials + (1) 1L amber jar

Remarks
Sampling Personnel R.S. Eastwood

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED: 30-NOV-1992

REPORT NUMBER: D92-13620-1
REPORT DATE: 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty and Miller, Inc.
ADDRESS : 251 East Ohio St. Ste. 1010
Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

PROJECT : IN17201

DATE SAMPLED : 23-NOV-1992

CASE NARRATIVE COMMENTS:

No unusual problems were encountered during the sample analysis for this project.

Please refer to the attached Case Narrative Summary for a comparison of sample identifications and analytical requests.

NDRC Laboratories, Inc. Felicia A. Parker

Felicia A. Parker
Project Manager

CUSTOMER : Geraghty & Miller, Inc.
PROJECT : IN17201

SAMPLE ID : D92-13620-1 DATE SAMPLED : 23-NOV-1992
ID MARKS : SB-2-(5-7')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	1-DEC-1992
TPH_8015_S			RJD	3-DEC-1992

SAMPLE ID : D92-13620-2 DATE SAMPLED : 23-NOV-1992
ID MARKS : SB-3-(5-7')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	1-DEC-1992
TPH_8015_S			RJD	3-DEC-1992

SAMPLE ID : D92-13620-3 DATE SAMPLED : 24-NOV-1992
ID MARKS : SB-4-(5-7')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	3-DEC-1992
TPH_8015_S			RJD	4-DEC-1992

SAMPLE ID : D92-13620-4 DATE SAMPLED : 24-NOV-1992
ID MARKS : SB-5-(7-9')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	1-DEC-1992
TPH_8015_S			RJD	3-DEC-1992

SAMPLE ID : D92-13620-5 DATE SAMPLED : 24-NOV-1992
ID MARKS : SB-6-(5-7')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	1-DEC-1992
TPH_8015_S			RJD	3-DEC-1992

CUSTOMER : Geraghty & Miller, Inc.
PROJECT : IN17201

SAMPLE ID : D92-13620-6 DATE SAMPLED : 24-NOV-1992
ID MARKS : SB-7-(3-5')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	1-DEC-1992
TPH_8015_S			RJD	3-DEC-1992

SAMPLE ID : D92-13620-7 DATE SAMPLED : 24-NOV-1992
ID MARKS : SB-8-(5-7')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	3-DEC-1992
TPH_8015_S			RJD	4-DEC-1992

SAMPLE ID : D92-13620-8 DATE SAMPLED : 25-NOV-1992
ID MARKS : SB-9-(3-5')

ANALYSIS	PRP BY	PREP DATE	ANL BY	ANALYSIS DATE
SOLID_TPER			MES	1-DEC-1992
TPH_8015ES	TLR	1-DEC-1992	MGD	1-DEC-1992
TPH_8015_S			RJD	4-DEC-1992

ANALYSIS ID	DESCRIPTION
SOLID_TPER	Total Solids by OVEN
TPH_8015ES	Total Petroleum Hydrocarbon by GC
TPH_8015_S	Total Recoverable Petroleum Hydrocarbon

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-1
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-2-(5-7')
PROJECT : IN17201
DATE SAMPLED : 23-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 1-DEC-1992
DILUTION FACTOR : 1

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	14 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	97.2 %

NDRC Laboratories, Inc. David R. Godwin v 2

David R. Godwin, Ph.D.
Chief Executive Officer

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-1
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-2-(5-7')
PROJECT : IN17201
DATE SAMPLED : 23-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 1

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	50 µg/Kg	1100 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	74.0 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-1
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-2-(5-7')
PROJECT : IN17201
DATE SAMPLED : 23-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	79.6 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-2
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-3-(5-7')
PROJECT : IN17201
DATE SAMPLED : 23-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 1-DEC-1992
DILUTION FACTOR : 1

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	120 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	90.3 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-2
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-3-(5-7')
PROJECT : IN17201
DATE SAMPLED : 23-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 1

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	50 µg/Kg	1300 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	90.0 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-2
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-3-(5-7')
PROJECT : IN17201
DATE SAMPLED : 23-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	80.6 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

NDRC Laboratories, Inc. David R. Godwin v 2

David R. Godwin, Ph.D.
Chief Executive Officer

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-3
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-4-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 10

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	100 mg/Kg	150 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	71.3 %

NDRC Laboratories, Inc. David R. Godwin v 2

David R. Godwin, Ph.D.
Chief Executive Officer

NDRC LABORATORIES, INC.

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BEAUMONT **DALLAS** **HOUSTON**

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-3
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-4-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 4-DEC-1992
DILUTION FACTOR : 50

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	2500 µg/Kg	100000 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	81.0 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-3
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-4-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	77.7 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

NDRC Laboratories, Inc. David R. Godwin v 2

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-4
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-5-(7-9')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 1-DEC-1992
DILUTION FACTOR : 1

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	< 10 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	74.7 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-4
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-5-(7-9')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 1

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	50 µg/Kg	510 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	102 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-4
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-5-(7-9')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	76.0 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

NDRC Laboratories, Inc. David R. Godwin v 2

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-5
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-6-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 1-DEC-1992
DILUTION FACTOR : 1

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	< 10 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	79.8 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-5
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-6-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 1

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	50 µg/Kg	< 50 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	104 %

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BEAUMONT **DALLAS** **HOUSTON**

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-5
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-6-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	80.9 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

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BEAUMONT **DALLAS** **HOUSTON**

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-6
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-7-(3-5')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 1-DEC-1992
DILUTION FACTOR : 1

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	28 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	70.4 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-6
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-7-(3-5')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 1

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	50 µg/Kg	530 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	70.0 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-6
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-7-(3-5')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	83.3 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-7
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-8-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 3-DEC-1992
DILUTION FACTOR : 10

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	100 mg/Kg	260 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	111 %

NDRC Laboratories, Inc. David R. Godwin v 2

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-7
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-8-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 4-DEC-1992
DILUTION FACTOR : 50

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	2500 µg/Kg	60000 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	72.0 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-7
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-8-(5-7')
PROJECT : IN17201
DATE SAMPLED : 24-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	84.1 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

NDRC Laboratories, Inc. David R. Godwin v 2

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-8
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-9-(3-5')
PROJECT : IN17201
DATE SAMPLED : 25-NOV-1992
PREPARATION METHOD : EPA 3550
PREPARED BY : TLR
PREPARED ON : 1-DEC-1992
ANALYSIS METHOD : EPA 8015
ANALYZED BY : MGD
ANALYZED ON : 1-DEC-1992
DILUTION FACTOR : 1

EXTRACTABLE TPH BY GAS CHROMATOGRAPHY		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	31 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
o-Terphenyl (SS)	100 mg/Kg	78.1 %

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-8
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-9-(3-5')
PROJECT : IN17201
DATE SAMPLED : 25-NOV-1992
ANALYSIS METHOD : EPA 5030/8015
ANALYZED BY : RJD
ANALYZED ON : 4-DEC-1992
DILUTION FACTOR : 25

TRPH BY EPA METHOD MODIFIED 8015		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1250 µg/Kg	27000 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Fluorobenzene	50.0 µg/Kg	76.0 %

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BEAUMONT **DALLAS** **HOUSTON**

DATE RECEIVED : 30-NOV-1992

REPORT NUMBER : D92-13620-8
REPORT DATE : 8-DEC-1992

SAMPLE SUBMITTED BY : Geraghty & Miller, Inc.
ADDRESS : 251 East Ohio St. Ste.1010
: Indianapolis, IN 46204
ATTENTION : Mr. Robert Fedorchak

SAMPLE MATRIX : Soil
ID MARKS : SB-9-(3-5')
PROJECT : IN17201
DATE SAMPLED : 25-NOV-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	76.7 %
Analyzed using EPA 160.3 on 1-DEC-1992 by MES		

NDRC Laboratories, Inc. David R. Godwin v 2

David R. Godwin, Ph.D.
Chief Executive Officer

CHAIN OF CUSTODY RECORD

NDRC LABORATORIES, INC.

1089 East Collins Blvd., Richardson, TX 75081 (214) 238-5591

Submitted by
Name: Rob Fedorchak
Address: Geraghty & Miller, 251 E. Ohio St, Indianapolis, IN 46204
Contact: Rob Fedorchak
Phone: 317-231-6500
Fax: 317-231-6514

Bill to
Name:
Address:
Contact:
Phone:
Fax:

QC REPORT

GC

CASE NARRATIVE REQUIRED

ORIGINAL

Lab use only
Due Date: 12-7-92
WIC
RCRA ☐
NPDES ☐
Section / Date

Proj. No.: 1N17201
Project Name:

Analysis: TPH by 8015 / Purgeable + Ext.

Matrix[1]	Date	Time	Comp	Grab	Identifying Marks	VOA	A/G 1 Lt.	250 ml	P/O	TPH by 8015 / Purgeable + Ext.	Lab. Sample ID
S	11/23/92	2:30 pm		X	SB-2-(5-7')	2	1			X	13620-1
S	11/23/92	4pm		X	SB-3-(5-7')	2	1			↓	2
S	11/24/92	8:30am		X	SB-4-(5-7')	2	1			↓	3
S	11/24/92	9:45am		X	SB-5-(7-9')	2	1			↓	4
S	11/24/92	11am		X	SB-6-(5-7')	2	1			↓	5
S	11/24/92	2:30pm		X	SB-7-(3-5')	2	1			↓	6
S	11/24/92	4pm		X	SB-8-(5-7')	2	1			↓	7
S	11/25/92	8am		X	SB-9-(3-5')	2	1			↓	8
Trip Blank → not needed						2					

No. of Containers[2]

Turn around time ☐ 100% ☐ 50% ☒ Standard Other: ______ Temperature °C: 16°C

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Date:	Time:
Robert S. Fedorchak	11/25/92	4pm	B. Wilson	11/30/92	9:30

Remarks: Due to high temperature, contacted client on 11/30. Per Bob Reynolds, put job into work. lj.

[1] Matrix: W - Water, S - Soil, SD - Solid, L - Liquid, A - Air Bag, C - Charcoal tube, SL - Sludge, O - Oil

[2] Container: VOA - 40 ml vial, A/G - Amber / Or Glass 1 Liter, 250 ml - Glass wide mouth, P/O - Plastic or other

NDRC cannot accept verbal changes. Please Fax written changes to

NDRC LABORATORIES, INC. № 21151

Dallas - 1089 East Collins Blvd. • Richardson, Texas 75081 • (214) 238-5591 • Fax (214) 238-5592

SAMPLE PRESERVATION INFORMATION SHEET

Field Sampling ☐ Incoming Samples ☐

GENERAL

Company: Geraghty & Miller Job No: 13620-1-8

No. of Cooler(s): 1 Temperature of Cooler(s): <4°C

PRESERVATION INFORMATION

Sample No.	Temperature of Sample	Sample Container	Volume	Preservation used *	Initial pH	Final pH	Bottles generated	Comments

NO PRESERVATION

PRESERVATION USED *

1 - Cool to 4° C
2 - H_2SO_4 to pH < 2
3 - HNO_3 to pH < 2
4 - HCL to pH < 2
5 - NaOH to pH > 12
6 - $Na_2S_2O_2$ 0.008%
7 - 2 mL Zinc Acetate and NaOH to pH > 12
8 - None required

NAS
Preserved by

11-30-92
Date/Time

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BEAUMONT DALLAS HOUSTON

DATE RECEIVED: 30-NOV-1992

REPORT NUMBER: D92-13620
REPORT DATE: 8-DEC-1992

SUBMITTED BY: Geraghty & Miller, Inc.

LABORATORY ANALYSIS
QUALITY CONTROL REPORT

ANALYSIS:	Total Solids
Technician:	MES
Sample Extracted:	----
QC Extracted:	----
Sample Analyzed:	12/1/92
QC Analyzed:	12/1/92
QC Sample Number:	D92-13620-1

Analysis Method:	EPA 160.3
Extraction Method:	----
MS/MSD RPD:	----
Average Spike Recovery:	----
Duplicate RPD:	1.3 %
Method Blank:	----
Blank Spike Recovery:	----
TCLP Spike Recovery:	----

ANALYSIS:	TPH
Technician:	MGD
Sample Extracted:	12/1/92
QC Extracted:	12/1/92
Sample Analyzed:	12/1/92
QC Analyzed:	12/1/92
QC Sample Number:	D92-13593-1

Analysis Method:	EPA 8000
Extraction Method:	EPA 3550
MS/MSD RPD:	7.6 %
Average Spike Recovery:	100 %
Duplicate RPD:	----
Method Blank:	<10 mg/Kg
Blank Spike Recovery:	77.9 %
TCLP Spike Recovery:	----

ANALYSIS:	TPH
Technician:	RJD
Sample Extracted:	12/3/92
QC Extracted:	12/4/92
Sample Analyzed:	12/3/92
QC Analyzed:	12/4/92
QC Sample Number:	D92-13720-1

Analysis Method:	EPA 8015
Extraction Method:	EPA 5030
MS/MSD RPD:	2.5 %
Average Spike Recovery:	79 %
Duplicate RPD:	----
Method Blank:	<50 µg/Kg
Blank Spike Recovery:	108 %
TCLP Spike Recovery:	----

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

(FIll in completely)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

WELL LOCATION

County where drilled	Civil township	Township	Range	Section
Johnson	Franklin	T12N	R4E	14

Driving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there is space for a map on reverse side.

Old Franklin Library Condominium Project, Downtown Franklin
Home Avenue

OWNER - CONTRACTOR

Name of well owner: Unoccupied - Rennovation
Telephone Number: ( ) -

Address (Street and number, city, state): Unit E Franklin Library Project
ZIP code: -

Name of building contractor: Landmark Homes
Telephone number: (317)881-9564

Address (Street and number, city, state): 201 S. Emerson Suite 120, Greenwood, IN
ZIP code: 46143

Name of drilling contractor: AMAX Coal Industries, Inc.
Telephone number: (317 266-1712

Address (Street and number, city, state): 251 N. Illinois St., P.O. Box 6106
ZIP code: 46206-6106

Name of equipment operator	License number	Date of completion
Kenneth Davis	590	10/18/89

CONSTRUCTION DETAILS

Use of well:
☐ Home ☐ Industry ☐ Test ☐ Irrigation
☐ Public supply ☐ Stock ☒ Other (specify): ~~geothermal~~ Closed loop

Method of drilling:
☐ Cable tool ☐ Rotary ☐ Jet ☐ Rev. rotary ☐ Bucket rig ☐ Other

Casing length	Material	Diameter
N/A feet		inches

Screen length	Material	Diameter
N/A feet		inches

Screen slot size	Total depth of well
N/A	190'

Depth of pump setting	Water quality (Clear, cloudy, odor, etc.)
N/A	

Type of pump:
☐ Submersible ☐ Shallow-well jet ☐ Deep-well jet ☒ Other (specify): ~~N/A~~

WELL CAPACITY TEST

Check one: ☐ Bailing N/A ☐ Air ☐ Pumping

Test rate: _____ gpm _____ hrs.

Drawdown	Static level
N/A feet	(depth to water) feet

GROUTING INFORMATION

Grout material	Depth of grout	Method of installation	Number of bags used
Bentonite	From TD To 0	Pressure	3

WELL ABANDONMENT

Sealing material	Depth filled	Method of installation	Number of bags used
	From To		

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Typical stratigraphy shown		
for the 2 holes completed		
on this lot.		
Brown Clay	0	9
Gray Clay	9	89
Gravel	89	95
Gray Drift	95	175
Dark Gray Sandy Shale	175	190
(Additional space for well log on reverse side)	T.D.	190

I hereby swear or affirm, under the penalties for perjury that the information submitted herewith is to the best of my knowledge and belief, true, accurate and complete.

Signature of owner or authorized representative: David M. [illegible]

Date: 1/3/90

FOR ADMINISTRATIVE USE ONLY
(well driller does not fill out)

County	Township	Range	¼	¼	Section
Thurston	12N	4E			14

Topo map		Ground elevation	Subdivision name
Tenino	Ft. W of EL		
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

N

W E

S

RECORD OF WATER WELL

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(Fill in completely)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCES
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

WELL LOCATION

County where drilled	Civil township	Township	Range	Section
Johnson		NeeDHAM		

Driving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination there is space for a map on reverse side.
TAKe 65 South 44 At franklin go west to 4 way stop trun Right go to Tee tran Left to over street trun Left 150' trun Left At Gate go Back 120' well on Right

OWNER - CONTRACTOR

Name of well owner: Warrior oil service INC.	Telephone Number: (317) 738-97
Address (Street and number, city, state): 809 over street FRANKLIN IN.	ZIP code:
Name of building contractor:	Telephone number: ( )
Address (Street and number, city, state):	ZIP code:
Name of drilling contractor: SMITH'S well service	Telephone number: (812) 988-780
Address (Street and number, city, state): RR 4 Box 160 A NASHVILLE	ZIP code: 47448

Name of equipment operator: HARRY & DAVID SMITH | License number: 210 - 196 | Date of completion: 12-6-91

CONSTRUCTION DETAILS

Use of well:
☐ Home ☑ Industry ☐ Test ☐ Irrigation
☐ Public supply ☐ Stock ☐ Other (specify): _____

Method of drilling:
☑ Cable tool ☐ Jet ☐ Rotary ☐ Rev. rotary ☐ Bucket rig ☐ Other

Casing length	Material	Diameter
67' feet	Steel	6" inches

Screen length	Material	Diameter
7' feet	PLASTIC	5" inches

Screen slot size: .40
Total depth of well: 72'
Depth of pump setting: 60'
Water quality (Clear, cloudy, odor, etc.):

Type of pump:
☑ Submersible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other (specify): _____

WELL CAPACITY TEST

Check one: ☐ Bailing ☑ Air ☑ Pumping
Test rate: 15 gpm 1½ hrs.
Drawdown: 21' feet
Static level (depth to water): 17' feet

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
SAndy CLAY	0	11'
SAND w/fine GRAVEL	11	24'
GRAY CLAY	24	65'
COARSE SAND GRAVEL	65'	72'

GROUTING INFORMATION

Grout material	Depth of grout	Method of installation	Number of bags used
Pen SEAL	From 0 To 65'		2

WELL ABANDONMENT

Sealing material	Depth filled	Method of installation	Number of bags used
	From To		

(Additional space for well log on reverse side)

I hereby swear or affirm, under the penalties for perjury that the information submitted herewith is to the best of my knowledge and belief, true, accurate and complete.

Signature of owner of authorized representative: David Smith

Date:

(well driller does not fill out)

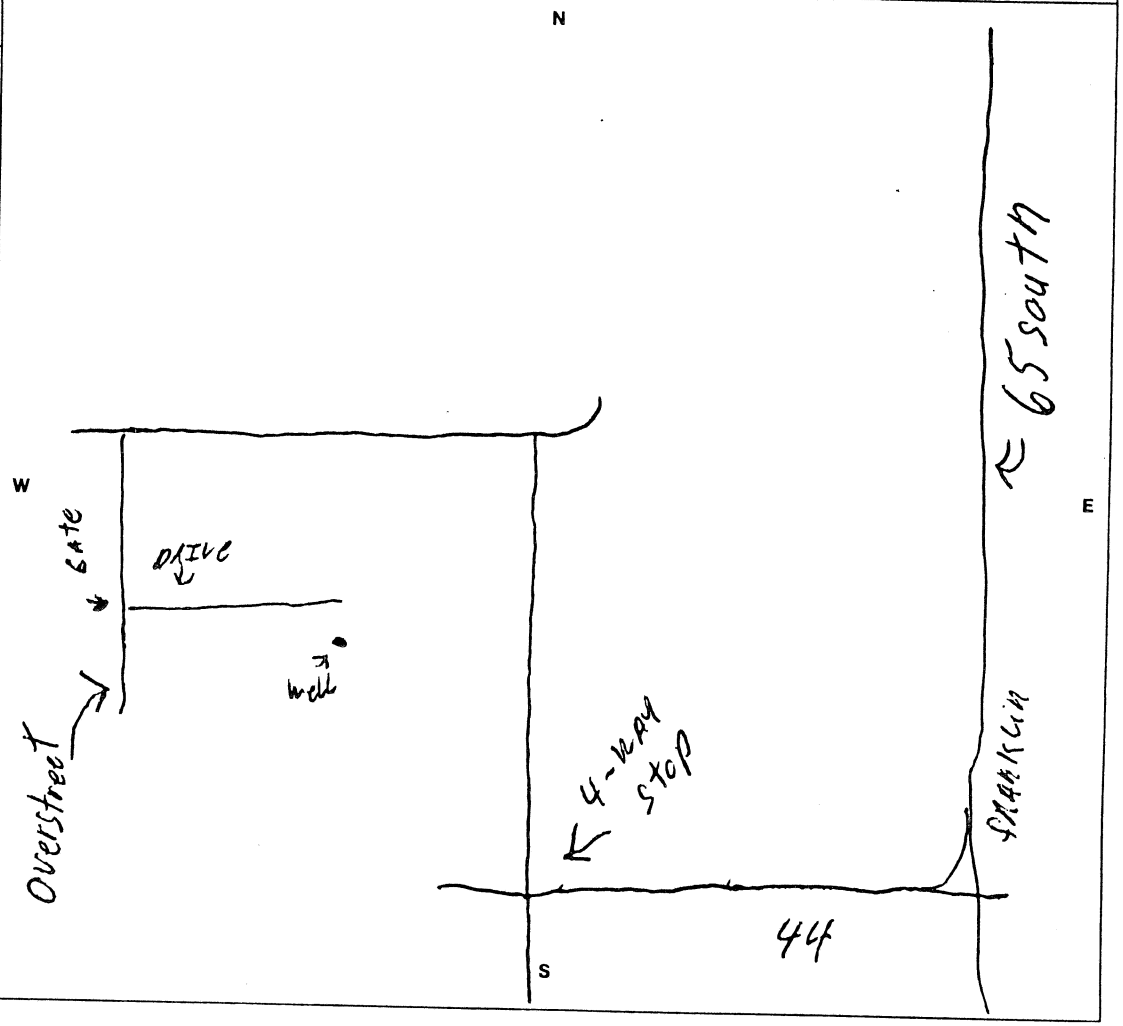
County	Township	Range	¼	¼	Section
Johnson	12N	4E			

Topo map		Ground elevation	Subdivision name
Franklin	Ft. W of EL		
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)

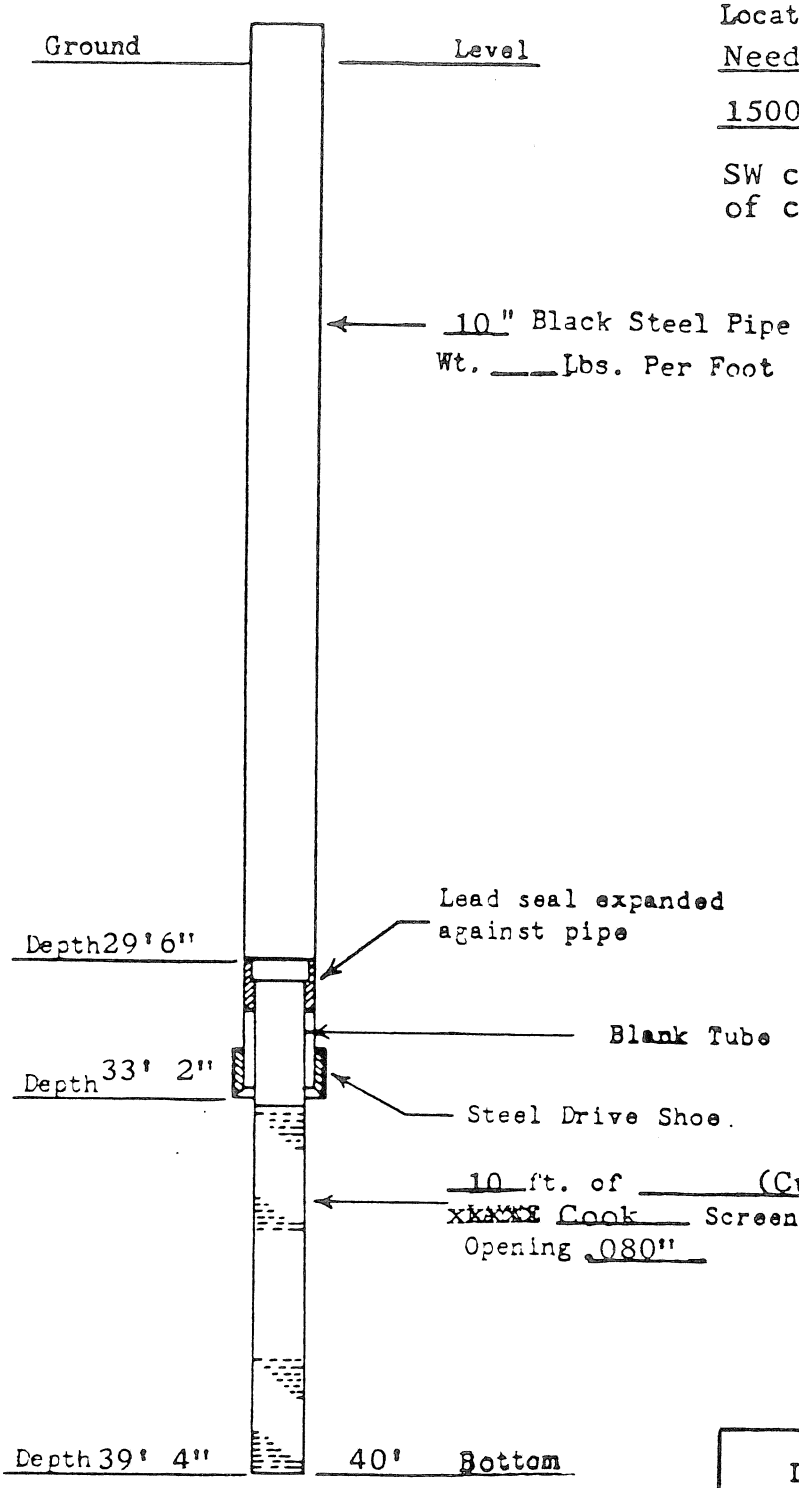


(37)

Pipe extends 5 feet above ground level.

Job No. C-7989

Location: Johnson Co.
Needham Twp. Sec. 12
1500' E. and 1280' N. of
SW corner of Sec. 50' West
of creek.



Pipe Tally	Welded Threaded
Bottom piece	24' 6"
	11' 2"
	2' 6"
Total	38' 2"

Static Level 7'
Pumped 566 GPM
at 19' pumping level Spc 47
after 8 hours 35 min.

Driller H. A. Smith
Date Finished 3-4-58

Not drawn to scale
All depths measured from Ground Level

LAYNE TUBULAR WELL No. 3
For
INDIANA GAS & WATER COMPAN
WEBB FIELD
FRANKLIN, INDIANA

LAYNE NORTHERN CO. INC
MISHAWAKA, INDIANA

DRAWN BY	DRAWING NO.
APPROVED BY	C-7989
DATE	

REYNOLDS SUPPLY, INC.
1730 S. HARDING STREET
INDIANAPOLIS, IN 46221
317/636-1996

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG

[ ] TEST
[X] PERMANENT

Project No. 122N

WELL NO. 5 CITY Franklin County Johnson

Owner Indiana Cities Water Corporation Township Needham

Section 12-T12N-R4E

Location State Indiana

Land Description 350' S. of #4 and 100' West of Drive

Street or Road 795' W. of County Road 400 E, 400' S. of Hurricane Creek

DUPLICATE RECORD

FORMATION	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Top Soil	0'	4'	4'	
Clay	4'	10'	6'	
Fine Sand	10'	30'	20'	14'
Medium fine sand, coarse gravel	30'	32'	2'	
Medium gravel	32'	35'	3'	
Medium fine sand, medium gravel	35'	40'	5'	
Medium coarse sand, medium gravel	40'	45'	5'	
Medium fine sand, mixture of fine to coarse gravel	45'	50'	5'	
Medium sand, medium coarse gravel	50'	55'	5'	
Medium sand, fine coarse gravel	55'	60'	5'	
Medium coarse sand, medium gravel	60'	65'	5'	
Medium coarse sand, fine-medium gravel	65'	70'	5'	
Medium coarse sand	70'	75'	5'	
Fine to medium sand, fine gravel	75'	80'	5'	
Mixture of fine to medium to coarse sand	80'	85'	5'	
Medium coarse sand,medium gravel	85'	87'	2'	

ole 48 " Dia. Drilled by: R. C.

tary Hole Grouted with:

sing 16 " OD from 6' " above grade to 57 ' below grade. Weight

reen 16 " Set from 57 to 87 feet Make Johnson Type W.W. Slot .060

mping Test 1200 GPM drawdown to 23 feet after 6 Hours Pumping

une 29, 1979

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

IND. CITIES WATER - FRANKLIN
WELL #5

COUNTY Johnson TWP. 12N RGE. 4E NW ¼ SE ¼ SE SEC 12 Subdivision Name

Topo Map Franklin 7½

800 Ft W of EL. Ground Elevation 729 REYNOLDS

Field Located By _____ Date _____ 1300 Ft N of SL. Depth to bedrock _____ 6-29-79

Courthouse Location By _____ Date _____ _____ Ft E of WL. Bedrock elevation _____

Location accepted w/o verification by _____ _____ Ft S of NL. Aquifer elevation 642- Lot Number _____

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)
		729 87 642

(3)

900' North of Upper Shelbyville Rd. SE¼ SEC. 12 T 12 N R 4E

795' W of C.R. 400E

400' S. of Hurricane C

Reynolds Supply, Inc.

COMPLETE MUNICIPAL & INDUSTRIAL WATER SYSTEMS

FORMATION LOG OF WELL

T.W. # 79-R-1A

Starting Date _____ Finished May 9, 1979 Well Number Test Well Walters

Owner Indiana Cities Water Corp. Location 350' S.W of #4 & 100' W. of Drive (WATER

NEEDHAM TOWNSHIP

TOTAL DEPTH	THICKNESS EACH STRATUM	FORMATION
0' - 4'	4'	Top Soil
4' - 10'	6'	Clay
10' - 30'	20'	Fine sand
30' - 32'	2'	Med. to fine sand & coarse gravel
32' - 35'	3'	Med. gravel
35' - 40'	5'	Coarse gravel & medium gravel, brown
40' - 45'	5'	Coarse & medium brown gravel
45' - 50'	5'	Coarse & medium brown gravel
50' - 55'	5'	Coarse & medium brown gravel
55' - 60'	5'	Very coarse gravel
60' - 65'	5'	Fine gravel to medium sand
65' - 70'	5'	Very coarse and medium gravel
70' - 85'	15'	Coarse, medium and fine sand
85' - 87'	2'	Coarse, medium and fine gravel

PERM. WELL AT THIS LOCATION

TMB 9-17-79

Use

Method

Static wat

Bailer Test:

Pumping Test:

24'

Draw Down

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY Johnson TWP. 12 N RGE. 4 E NW ¼ SE ¼ SE SEC 12

Topo Map Franklin 7½

Field Located By _____ Date _____

Courthouse Location By _____ Date _____

Location accepted w/o verification by _____

1300 Ft W of EL.

1000 Ft N of SL.

_____ Ft E of WL.

_____ Ft S of NL.

Ground Elevation 728

Depth to bedrock _____

Bedrock elevation _____

Aquifer elevation 637 -

Franklin

1-R-2

Subdivision Name

Layne

3-21-72

Lot Number _____

Well Field

WATER WELL LOG

To	From	FORMATIONS (Color, type of material, hardness, etc.)

JAMES MORRIS - 881-8007
OR
JAMES WALSH 881-6100

THIS WELL REPLACES 1-R-1 WHICH REPLACED WELL #1 - PROBLEM WITH CO_2 GAS ACCORDING TO JIM MORRIS.

728
- 91
637

(4)

SINGER

Layne NORTHERN COMPANY INCORPORATED

INDIANAPOLIS • MISHAWAKA • LANSING

a ☐ TEST

☒ PERMANENT

Job No. 23556

WELL LOG No. 4 CITY Franklin County Johnson

Owner Indiana Cities Water Corporation Township Needham

Walters Well Field Section 12-T12N-R4E

Location At site of #26 Survey State Indiana

From Land Description Approximately 200' S. of Hurricane Creek

From Street or Road & 555' W. of Road 400E

FORMATION FOUND — DESCRIBE FULLY	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Top Soil, Sand	0	12	12	
Medium Sand	12	19	7	
Fine Sand	19	22	3	
Medium coarse sand & gravel	22	47	25	
Coarse gravel, boulders, clay	47	55	8	
Medium, coarse gravel, small boulders	55	67	12	
Packed sand, clay, boulders	67	71	4	
Hard packed sand, boulders	71	74	3	
Medium gravel, small boulders, some fine sand	74	98	24	
Gray muddy silt, sand	98	102	4	

Hole 40 "Dia Drilled by: Cable Tool ______ Rotary ______ Jetting ______ Reverse Circ. x Bucket ______ Auger ______

Rotary Hole Grouted: Neat Cement ______ Drilling Mud ______ Other ______

Casing ______ "OD From ______ "above ground to ______ feet below ground. Weight ______ Pounds per foot

Screen 16 " Set from 78 to 98 feet Make Layne Type S.S. Slot #5

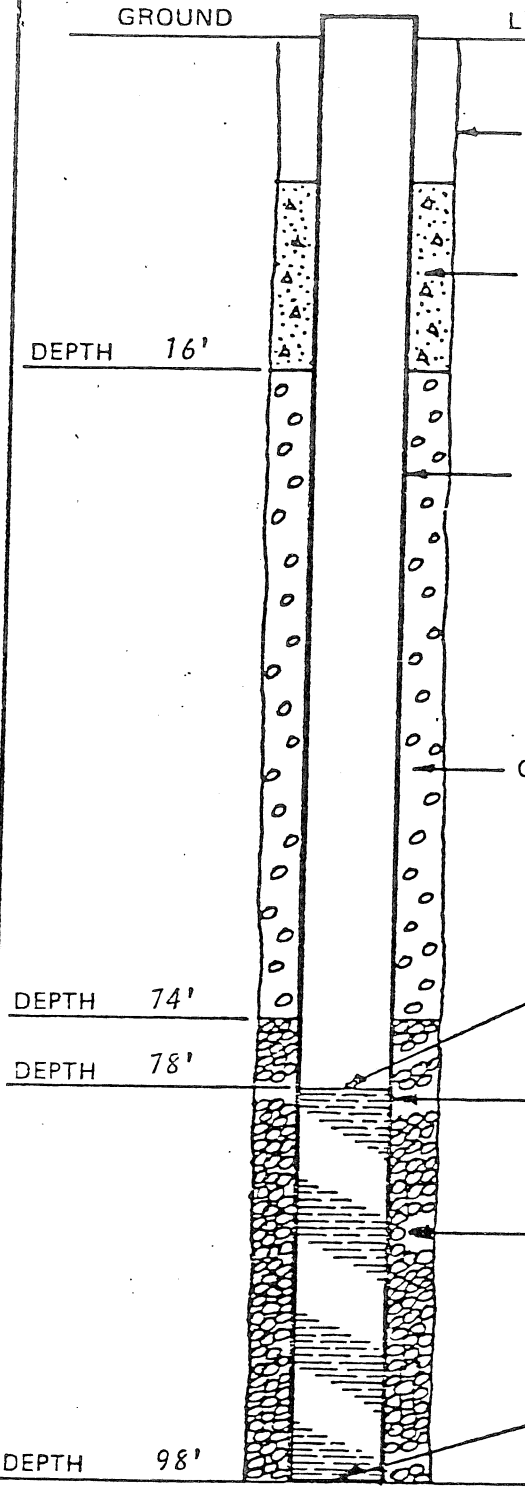
Pumping test 1225 GPM drawdown to ______ feet after ______ hours pumping S.L. 12'

CASING EXTENDS 2 FEET ABOVE GROUND LEVEL

JOB NO. 23556

DISTRICT Indianapolis

LOCATION: Franklin



COUNTY Johnson

TOWNSHIP Needham

SECTION 12 T 12N R 4E

STATE Indiana

CASING TALLY — WELDED THREADED

	FT.	IN.
BOTTOM		
TOP		
TOTAL		

FILL USED FROM BOTTOM UP

SILICA GRAVEL PACK	98 TO 74	FT.
GRAVEL FILL	74 TO 16	FT.
CONCRETE	16 TO 12	FT.
Clay	12 TO 0	

STATIC LEVEL 12'

PUMPED 1225 G.P.M. AT _____ FEET PUMPING LEVEL AFTER _____ HOURS

TYPE OF RIG RC DRILLER H. Foster DATE COMPLETED 4/16/75

NOTE: ALL DEPTHS MEASURED FROM GROUND LEVEL. NOT TO SCALE.

GRAVEL WALL WELL NO. 4 TYPE SC-1

FOR: INDIANA CITIES WATER CORPORATION, FRANKLIN, INDIANA

SINGER - LAYNE - WATER RESOURCES

DRAWING NUMBER SC-1

5/73

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

Franklin #4

COUNTY Johnson TWP. 12N RGE. 4E SE ¼ NE ¼ SE SEC 12 Subdivision Name

Topo Map Franklin 7½ 400 Ft W of EL. Ground Elevation 730 Layne

Field Located By U Date 1-76 1400 Ft N of SL. Depth to bedrock 4-16-75

Courthouse Location By _____ Date _____ _____ Ft E of WL. Bedrock elevation _____

Location accepted w/o verification by _____ _____ Ft S of NL. Aquifer elevation 628- Lot Number _____

Walters Field

WATER WELL LOG

From	To	FORMATIONS (Color, type of material, hardness, etc.)
		at site of 74A which is Resist. Stn 26 on thin-tech. map
		900 ft East of plant.
		Mr Kreider - U. 12-75
		730 102 628-

5'1765N
5835'5E

(5)

BASTIN LOGAN WATER SERVICES INC.

237 W. MONROE STREET
P.O. BOX 55
FRANKLIN, INDIANA 46131
(317) 738-4577

___ TEST
X PERMANENT

DATE Oct. 2, 1987

Project No. 683-F

WELL NO. House CITY Franklin County Johnson

Owner Jackson Township Needham

Section 12 T12N-R4E

State IN

Location Walter Farm

Land Description

Street or Road 400 E.

FORMATION	FROM NATURAL GROUND LEVEL			
	Depth to Top of Stratum	Depth to Bottom of Stratum	Thickness of Stratum	Static Water Level
Top Soil	0'	17'	17'	
Hard gray clay w/sand	17'	46'	29'	
Fine sand & med. gravel	46'	47'	1'	
Hard Packed sand	47'	49'6"	2'6"	
Fine to coarse sand	49'6"	53'8"	4'2"	
Gritty clay	53'8"	75'	22'8"	58'-0
Hard Packed fine sand	75'	99'	24'	
Coarse sand & gravel	99'	107'	8'	

Hole 6 " Dia. Drilled by: Cable tool

Rotary Hole Grouted with:

Casing 6 " OD from 2' " above grade to 104 ' below grade. Weight Std.

Screen 5 " Set from 104 to 109 feet Make Slot Type P.V.C. Slot .060

Pumping Test 15 GPM drawdown to 63 feet after 2 Hours Pumping

Driller David Smith

Owner Jackson - Walter Farm

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

County: Johnson	Twp.: 12 N	Rge.: 4E	NE ¼ SE ¼ SE	Sec.: 12
Topo map: Franklin 7½	500 Ft. W of EL	Ground elevation: 741		Subdivision name:
Field located: verified By LH driller Date: 8/11/89	800 Ft. N of SL	Depth to bedrock:		Lot no.:
Courthouse location By: Date:	Ft. E of WL	Bedrock elevation:		
Location accepted w/o verification by:	Ft. S of NL	Aquifer elevation: 634		

WELL LOG
(Continued from front side)

Formations: type of material	From ft	To ft

SKETCH SHOWING LOCATION
Locate with reference to highways, intersecting county roads, and distinctive landmarks.

N

W

E

S

(6)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: ____

Congressional township: 12 N Range: 4 E Number of section: 13

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks:

Bryant Add. East Adams.

Dugger

Name of owner: – Address: ____

Name of Well Drilling Contractor: –

Address: ____

Name of Drilling Equipment Operator: –

INFORMATION ON THE WELL

Completed depth of well: 54 ft. Date well was completed: 9-17-57

Diameter of outside casing or drive pipe: 4 Length: 54

Diameter of inside casing or liner: ____ Length: ____

Diameter of Screen: 3 in Length: ____ Slot size: ____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other ____

Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 24 ft.

Bailer Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft.

Signature Driller – Kost & Steen 2-61

Date ____ Copied by rhl 9-64

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	8
Sand & Gravel	8	11
Clay	11	47
Sand - Mud	47	49
Sand & Gravel	49	54
REMARKS:		

COUNTY: Johnson TWP. 12N RGE. 4E ¼ NW ¼ NW ¼ SEC. 23

Topo Map: Franklin 2½

Well log ~~electrified~~ typed By K Date 9-64

Courthouse located By _____ Date _____

Field located By _____ Date _____

Acc. w/o verification By V Date _____

_____ Ft W of EL. Ground elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____

(Well driller does not fill out)

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

(7)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 11

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin - Graham Rd. new brick house

Name of owner: Elmer Goodwin Address: Franklin

Name of Well Drilling Contractor: Gene Brown

Address: Franklin

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 63 ft. Date well was completed: 7/5 9

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: 3 Length: 62" Slot size: _____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 19 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate 10 g.p.m. Drawdown 6 ft.

Source - Drillers
Signature _____
Collected by - Kost & Stec
Date 3/61

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay		57
Gravel & Sand	57	63

REMARKS:
Well is behind new brick house

COUNTY: Johnson TWP. 12 N RGE. 4 E SE ¼ SE ¼ NW ¼ SEC. 11

Topo Map: Edinburgh 7½

Well log classified By Emm Date 7/64
Courthouse located By ___ Date ___
Field located By Allen Date 3-67
Acc. w/o verification By ___ Date ___

___ Ft W of EL. Ground elevation 755
___ Ft N of SL. Depth to bedrock ___
2700 Ft E of WL. Bedrock elevation ___
2500 Ft S of NL. Aquifer elevation 692

(Well driller does not fill out)

INSTRUCTIONS

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FC

(8)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 12

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: R.R. Franklin - Hurricane Rd. - Tennant House - W. side - White frame - Needham

Name of owner: William Keating - Winfred Address: _____

Name of Well Drilling Contractor: Gene Brown

Address: _____

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 92 ft. Date well was completed: 6/20/59

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: 3" Length: 4'6" Slot size: _____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 25 ft.

Bailer Test: Hours tested _____ Rate 360 g.p.m. Drawdown 1 & 33 ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate _____ g.p.m. Drawdown 1 & 33 ft.

~~Source~~ ~~Signature~~ - Driller

Collected by ~~Date~~ - Kurt & Steen 3/61

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
21'7 Hardpan		42
10'1 Sand, gas pocket	42	45
10'1 Hardpan	45	52
9'8 Sand, gas pocket	52	55
9'10 Hardpan (soft)	55	88
9'10 Gravel	88	92
static 25'		
REMARKS:		

(Well driller does not fill out)

COUNTY: Johnson TWP. 12 N RGE. 4 E SW ¼ SE ¼ NW ¼ SEC. 12

Topo Map: Greenwood 7½'

Well log classified By Owner Date 7/64

Courthouse located By _____ Date _____

Field located By Klein Date 4-62

Acc. w/o verification By _____ Date _____

_____ Ft W of EL. Ground elevation 745

_____ Ft N of SL. Depth to bedrock _____

1500 Ft E of WL. Bedrock elevation _____

2700 Ft S of NL. Aquifer elevation 653

INSTRUCTIONS

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

FC
MC

(9)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 12

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin

Name of owner: Mrs. Wallace Webb Address: RR Franklin

Name of Well Drilling Contractor: Brown's Well Drilling Service

Address: Franklin

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 94 ft. Date well was completed: 3 - 9 - 54

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: _____ Length: 5 Slot size: _____

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 38 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 2 Rate 10 g.p.m. Drawdown 4.56 ft.

Signature no objections.

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Hardpan	0	56
Sand	56	60
Hardpan	60	90
Sand & Gravel	90	94
REMARKS:		

COUNTY: Johnson TWP. 12 N RGE. 4E SW ¼ SE ¼ SE ¼ SEC. 12

Topo Map: Franklin 7½

Well log classified By Dunn Date 7/64

Courthouse located By _____ Date _____

Field located By _____ Date _____

Acc. w/o verification By _____ Date _____

600 Ft W of EL. Ground elevation 745

100 Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation 651

(Well driller does not fill out)

INSTRUCTIONS

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(9)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12N Range: 4E Number of section: 12

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin

Name of owner: Mrs. Wallace Webb Address: RR4 Franklin

Name of Well Drilling Contractor: Warren E. Brown

Address: 1145 N. Main Franklin

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 50 ft. Date well was completed: 5-27-53

Diameter of outside casing or drive pipe: 4" Length: 48'

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: _____ Length: 5' Slot size: _____

Type of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 20 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 2 Rate 3½-4 g.p.m. Drawdown 18 ft.

Source
~~Signature~~ Drillers Log
Collected by -
~~Date~~ Kast & Steen 5-9

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay & Gravel	0	30
Hardpan	30	48
Sand & Gravel	48	50
REMARKS: Well slow		

COUNTY: Johnson TWP. 12N RGE. 4E SW ¼ SE ¼ SE ¼ SEC. 12

Topo Map: Franklin 7½

Well log classified By DMM Date 7/64

Courthouse located By _____ Date _____

Field located By Dean Date _____

Acc. w/o verification By _____ Date _____

(Well driller does not fill out)

400 Ft W of EL. Ground elevation 740+

100 Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____

INSTRUCTIONS

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FC

372150N
583410E

RECORD OF WATER WELL

State Form 35680 (R3 / 11-87)

Mail complete record within 30 days to:
INDIANA DEPARTMENT OF NATURAL RESOURCE
Division of Water
2475 Directors Row
Indianapolis, Indiana 46241
Telephone number (317) 232-4160

(Fill in completely)

WELL LOCATION

County where drilled	Civil township	Township	Range	Section
Johnson		Franklin		S 13

Driving directions to the well location (include county road names, number, subdivisions lot number with consideration to intersecting, road and trip origination the is space for a map on reverse side.

Turn North on Eastview Dr., Then go to Shelbyville Rd.turn right. Then go to first road to left, turn ,go over creek then pass water plant 1000 feet, new well #2 is 30' south of old #2 well.

OWNER · CONTRACTOR

Name of well owner: Indiana Cities Water Corporation (Franklin, Indiana)
Telephone Number: (317-881-86

Address *(Street and number, city, state)*: 400 Camby CT. P.O. Box 427, Greenwood, Indiana 46142
ZIP code:

Name of building contractor:
Telephone number: ( )

Address *(Street and number, city, state)*:
ZIP code:

Name of drilling contractor: Reynolds Inc
Telephone number: ( )

Address *(Street and number, city, state)*: Pilcam, Ind
ZIP code:

Name of equipment operator: Wayne Wildman
License number: 522
Date of completion: /9/89

BACKHOE, Chain, 60-L

CONSTRUCTION DETAILS

Use of well:
☐ Home ☒ Industry ☒ Test ☐ Irrigation
☐ Public supply ☐ Stock ☐ Other *(specify)*: _____

Method of drilling:
☒ Cable tool ☐ Rotary ☐ Rev. rotary ☐ Jet ☐ Bucket rig ☐ Other

Casing length	Material	Diameter
106'6" feet	103'0"	16" inches

Screen length	Material	Diameter
30' feet	Stainless Steel	14" inches

Screen slot size: .15 .00 .40 .100
Total depth of well: 111'
Depth of pump setting: 80'
Water quality *(Clear, cloudy, odor, etc.)*: Clear

Type of pump:
☒ Submersible ☐ Shallow-well jet ☐ Deep-well jet ☐ Other *(specify)*: _____

WELL CAPACITY TEST

Check one: ☐ Bailing ☐ Air ☐ Pumping
Test rate: 901 gpm 6 hrs.
Drawdown: feet
Static level (depth to water): 31'5" feet

GROUTING INFORMATION

Grout material	Depth of grout	Number of bags used	Method of installation
Bentonite	From 25 To 5	6	

WELL ABANDONMENT

Sealing material	Depth filled	Number of bags used	Method of installation
	From To		

WELL LOG

Formations: type of material	From (Feet)	To (Feet)
Top soil	0	1
Gray Clay	1	3
Light Gray Clay	3	6
Soft Gray Clay & Sand Mix	6	17
Gray Clay & gravel	17	21
Sand & Gravel	21	31
F. to M. Sand & Gravel	31	35
M Sand & P Gravel	35	42
F. to M. Sand Gravel	42	50
F. to M. Sand	50	62
F. Sand & Clay Linds	62	65
F. M. Sand	65	76

(Additional space for well log on reverse side)

I hereby swear or affirm, under the penalties for perjury that the information submitted herewith is to the best of my knowledge and belief, true, accurate and complete.

Signature of owner of authorized representative: Wayne Wildman
Date: 6/9/89

(well driller does not fill out)

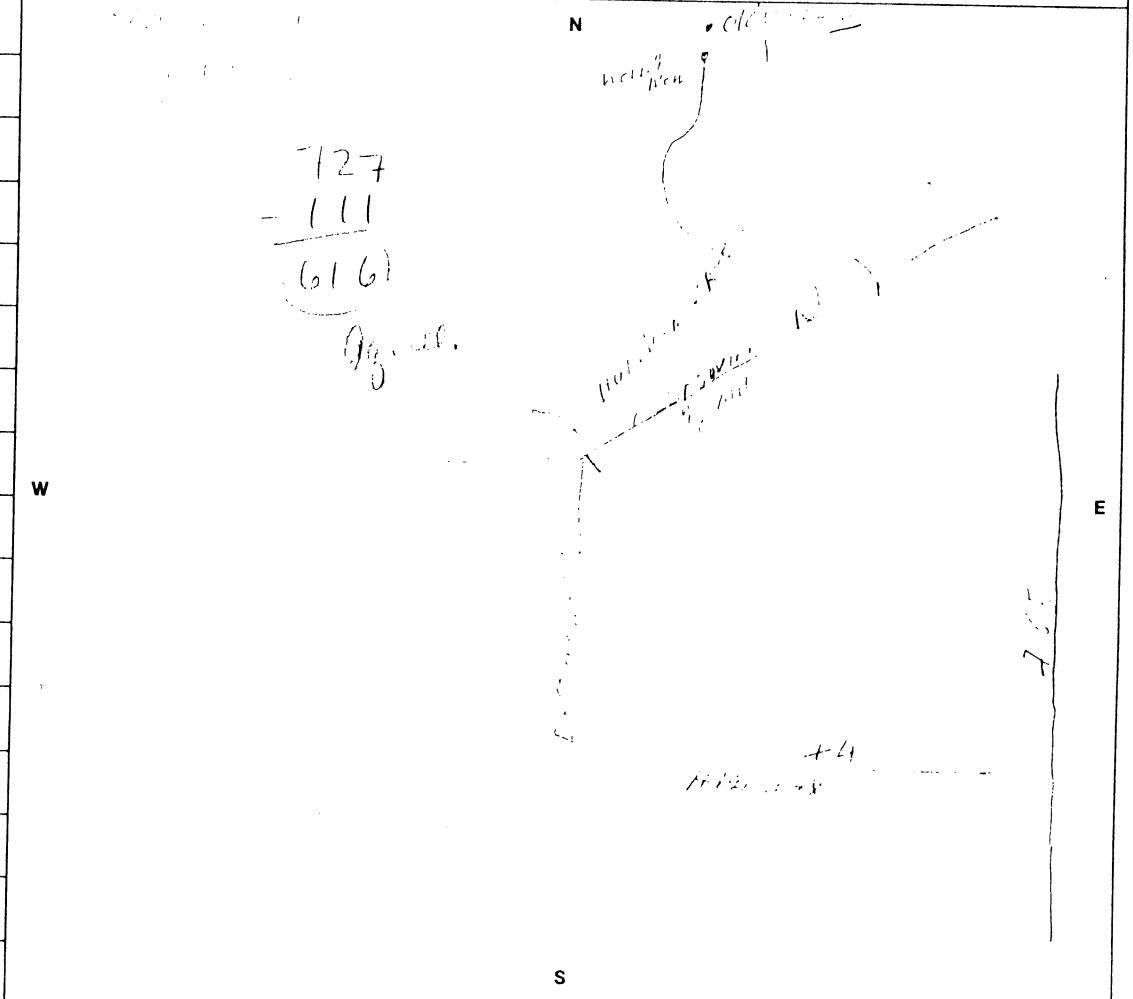
County	Township	Range		Section
	12N		1/4 1/4	12

Topo map		Ground elevation	Subdivision name
	Ft. W of EL		
Field located By Date	Ft. N of SL	Depth to bedrock	Lot number
Courthouse location By Date	Ft. E of WL	Bedrock elevation	U.T.M.
Location accepted w / o verification by	Ft. S of NL	Aquifer elevation	

(continued from front side)

WELL LOG Formations: type of material	FROM Feet	TO Feet
M. Sand & gravel & clay ball	76	78
F. M. Sand	78	80
F. Sand & Clay Ball	80	88
Clay & Gravel Mix (D)	88	92
Sand & Gravel	92	96
Sand & Gravel & Clay Lince	96	101
Sand & Gravel & Clay	101	103
Sand, Gravel and Clay Ball	103	104
Clay and Gravel(CD)	104	107
Gravel and Clay Ball	107	109
Clay and P Gravel (CD)	109	111

SKETCH SHOWING LOCATION
(Locate with reference to highways, intersecting county roads and distinctive landmarks.)



(11)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 23

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin

Name of owner: Robert A. Todd Address: —

Name of Well Drilling Contractor: Browns Well Drilling Service

Address: Franklin

Name of Drilling Equipment Operator: —

INFORMATION ON THE WELL

Completed depth of well: 35 ft. Date well was completed: _____
(e.g. (then deepened 8 ft.))

Diameter of outside casing or drive pipe: 4 Length: 32

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: _____ Length: 5 ft Slot size: _____

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 17 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature No Citations

Date _____ Copied by WH 9-64

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay & Gravel	0	12
Hard Pan	12	32
Sand and Gravel	32	35
(pencil note by Steen: "deepened west to limestone")		
REMARKS:		

COUNTY: Johnson TWP. 12N RGE. 4E ¼ NE ¼ SE ¼ SEC. 13

Topo Map: Franklin 7½

Well log ~~Unofficial~~ Copied

Courthouse located By ____ Date ____

Field located By ____ Date ____

Acc. w/o verification By ✓ Date ____

____ Ft W of EL. Ground elevation ____

____ Ft N of SL. Depth to bedrock ____

____ Ft E of WL. Bedrock elevation ____

____ Ft S of NL. Aquifer elevation ____

Well driller does not fill out)

INSTRUCTIONS

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

(12)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: Franklin

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin Water 6 inch well at pumping station

Name of owner: Ind. Public Ser. Co Address:

Name of Well Drilling Contractor: H. B. Lamb

Address: Carmel

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 165 ft. Date well was completed: 12-22-39

Diameter of outside casing or drive pipe: Length:

Diameter of inside casing or liner: Length:

Diameter of Screen: Length: Slot size:

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☐ For public supply ☒ test Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) ft.

Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested Rate g.p.m. Drawdown ft.

Signature H. B. Lamb -- TMK 1-26-55

Date Copied by WBL 4-63

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Cinder fill	0	6
Muck	6	17
Hard pan	17	25
Soft blue clay	25	41
Sand	41	41/6
Soft clay	41/6	60
Hard pan	60	66
Yellow sandy muck	66	72
Blue muck	72	90
Sandy blue hard pan	90	107
Brown hard pan	107	115
(Not given)	115	136
Soft blue clay	136	141
Brown shale	141	143
Blue shale, no water	143	165
REMARKS:		

COUNTY: Johnson

(Well driller does not fill out)

Topo Map: Franklin 7½

TWP. 12N RGE. 4E SW¼ SE¼ SW¼ SEC. 14 (Bethany)

Well log ~~classified~~ copied By 4 Date 4-65

Courthouse located By ___ Date ___

Field located By ___ Date ___

Acc. w/o verification By ___ Date ___ Can not be verified

___ Ft W of EL. Ground elevation ___

___ Ft N of SL. Depth to bedrock 141 driller

___ Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation ___

(Same 6)

INSTRUCTIONS

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(13)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: Franklin

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin Water Co's Test well #5 on lot of David Hunter near Vaught St, south of Jefferson

Name of owner: Ind Public Ser. Co Address:

Name of Well Drilling Contractor: H. B. Lamb.

Address: Carmel

Name of Drilling Equipment Operator: —

INFORMATION ON THE WELL

Completed depth of well: 138 ft. Date well was completed: 10-10-42

Diameter of outside casing or drive pipe: 6 in Length:

Diameter of inside casing or liner: Length:

Diameter of Screen: Length: Slot size:

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☐ For public supply ☒ Test Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 33 ft.

Bailer Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft.

Signature H B Lamb 10-10-42

Date FMK 1-26-43

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET Copied by ZLA 4-65.

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	1	18
Gravel & clay	18	21
Clay	21	33
Sandy hard pan	33	45
Sandy blue clay	45	73
Fine sand	73	77.6
Gravel fine (static level 35)	77.6	81
Sand & gravel, very poor	81	84
Sandy hard pan	84	95
Sandy blue clay	95	115
Yellow clay	115	133
Sandy blue clay	133	136
Shale ?	136	138
REMARKS:		

COUNTY: Johnson

Topo Map: Franklin 7½

TWP. 12N RGE. 4E SW¼ SW¼ SW¼ SEC. 14 (Stone)

(Well driller does not fill out)

Well log ~~Classified~~ By U Date 4-65

Courthouse located By ___ Date ___

Field located By ___ Date ___

Acc. w/o verification By J.R. Wright Date 4-4-65

___ Ft W of EL.

500 Ft N of SL.

500 Ft E of WL.

___ Ft S of NL.

Ground elevation 735

Depth to bedrock 136 driller

Bedrock elevation ___

Aquifer elevation ___

INSTRUCTIONS

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(14)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: Franklin

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin 6 in Test # 2 located on Standpipe lot.

Name of owner: Ind. Pub. Ser Co Address:

Name of Well Drilling Contractor: H B Lamb

Address: Carmel

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 140 ft. Date well was completed: 10-10-42

Diameter of outside casing or drive pipe: 6 in Length:

Diameter of inside casing or liner: Length:

Diameter of Screen: Length: Slot size:

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☐ For public supply ☒ Test Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 46 ft.

Bailer Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested ____ Rate ____ g.p.m. Drawdown ____ ft.

Signature H B Lamb 10-10-42 by

Date IMA 1-26-54

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET copied by WKL 4-65

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
soil	0	1
clay	1	10
hardpan	10	16
sandy hardpan	16	27
gravel	27	28
hardpan	28	36
blue clay	36	48
muddy sand	48	54
hard gr. static 46'	54	57
sandy hard pan	57	62
blue sandy clay	62	83
fine muddy sand	83	94
gravel, static level 46'	94	99.6
hard sdy. formation with stks. of gr.	99.6	106
very hd. sandy hardpan	106	117
sandy hardpan with streaks of gravel	117	133
soft gritty clay	133	140
REMARKS:		

(Well driller does not fill out)

COUNTY: Johnson TWP. 12N RGE. 4E NW ¼ SW ¼ SW ¼ SEC. 14

Topo Map: Franklin 7.5' Ft W of EL. Ground elevation 740

Well log ~~classified~~ copied By [illegible] Date 4-65 Ft N of SL. Depth to bedrock ___

Courthouse located By ___ Date ___ Ft E of WL. Bedrock elevation ___

Field located By ___ Date ___ Ft S of NL. Aquifer elevation ___

Acc. w/o verification By Not able to verify. [illegible] Date 4-65

INSTRUCTIONS

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(13)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

East at SS
Courthouse - N. R R.

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Southeast Part of Franklin northeast corner across park, just west of R R.

Name of owner: Alexander Ice & Coal Address: Franklin

Name of Well Drilling Contractor: Dilden Bros.

Address: —

Name of Drilling Equipment Operator: —

INFORMATION ON THE WELL

Completed depth of well: 58 ft. Date well was completed: 2-26-46

Diameter of outside casing or drive pipe: _____ Length: _____

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: _____ Length: _____ Slot size: _____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ice ☒ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 30 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate 15 g.p.m. Drawdown _____ ft.

Signature Drillr -- RW-12-50

Date copied by WRS 9-64

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Soil	0	1
Yellow Clay and Gritty dry Gravel	8	18
Blue Sandy hardpan	18	27
Brown sandy clay	27	30
Brown sandy hardpan	30	37
Blue sandy hardpan	37	47
Blue clay - gritty	47	53
Coarse gray sand and		
W. B. gravel SWL 30'	53	56
Sand & boulders	56	58
REMARKS:		

(Well driller does not fill out)

COUNTY: Johnson TWP. 12N RGE. 4E SE ¼ SW ¼ SE ¼ SEC. 14

Topo Map: Franklin 7½

Well log ~~Classified~~ Copied By [illegible] Date 9-64

Courthouse located By ___ Date ___

Field located By [illegible] Date 10-64

Acc. w/o verification By ___ Date ___

1400 Ft W of EL. Ground elevation ?

400 Ft N of SL. Depth to bedrock ___

___ Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation ___

INSTRUCTIONS

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FC

(16)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: ______

Congressional township: ______ Range: ______ Number of section: ______

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin

Name of owner: [illegible] Address: Vaught St. (between + Madison)

Name of Well Drilling Contractor: Brown's Well Drlg.

Address: ______

Name of Drilling Equipment Operator: Dwayne Smith

INFORMATION ON THE WELL

Completed depth of well: 97 ft. Date well was completed: ______

Diameter of outside casing or drive pipe: ______ Length: ______

Diameter of inside casing or liner: ______ Length: ______

Diameter of Screen: ______ Length: ______ Slot size: ______

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other [illegible]

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) ______ ft.

Bailer Test: Hours tested ______ Rate ______ g.p.m. Drawdown ______ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested ______ Rate ______ g.p.m. Drawdown ______ ft.

Signature ______

Date ______

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
clay	0	82
fine sand (gas)	82	86
clay	86	94½
gravel + sand	94½	97
REMARKS:		
	740 / 97 / 643-	

COUNTY: Johnson TWP. 12N RGE. 4E NW ¼ SW ¼ SW ¼ SEC. 14

Topo Map: [illegible]

Well log classified By [illegible] Date 4/64

Courthouse located By ___ Date ___

Field located By [illegible] Date 10-64

Acc. w/o verification By ___ Date ___

___ Ft W of EL. Ground elevation 740

1200 Ft N of SL. Depth to bedrock ___

400 Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation 643-

INSTRUCTIONS

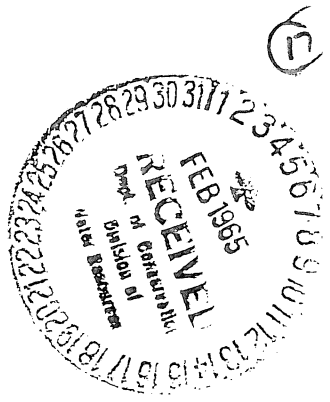
This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indian Department of Conservation.

FC
MC

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
311 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA



WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: 1091 Gander St. Franklin Ind

Name of owner: Earl Taylor Address: _____

Name of Well Drilling Contractor: Burris Well Drilling

Address: Franklin Ind

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 63 ft. Date well was completed: June 63

Diameter of outside casing or drive pipe: 4 Length: _____

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: 3 Length: 3'4" Slot size: #18 Cook

Type of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☑ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 19 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 1 Rate 10 g.p.m. Drawdown 13 ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

COUNTY: Jefferson TWP. 4N RGE. 9E NW ¼ NE ¼ NE ¼ SEC. 14

Topo. Map: Hanover 7½ Loc. accepted w/o verification Yes ___ No ___

El. of grnd. surface at well: 740 Courthouse Loc. By ___ Date ___

Depth to bedrock: ___ Field Located By JL Date 2-65

Well Log processed by: JL Placed in Master Well Log File Date ___

500 S. & 1000 W. of S.E. C.

approx elev. 677-

FORMATIONS (Color, type of material, hardness, etc.)	From	To
yellow clay	0	18
grey "	18	48
yellow "	48	55
grey "	55	58
Gravel	58	63

REMARKS:

740
45
695

INSTRUCTIONS

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation, 311 West Washington Street, Indianapolis, Indiana.

(18)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: _____ Range: _____ Number of section: _____

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin

for shop.

Name of owner: W. E. Brown Address: 1145 N. Main St.

Name of Well Drilling Contractor: Brown's Well & Pump.

Address: _____

Name of Drilling Equipment Operator: Dwayne Smith

INFORMATION ON THE WELL

Completed depth of well: 72 ft. Date well was completed: 3-62

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen ~~Gauze wrapped~~ Length: 5' Slot size: _____

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other tubular

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 19 ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate 10 g.p.m. Drawdown 2 ft.

Signature _____

Date _____

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
clay	0	69
gravel + sand	69	72
REMARKS:		
745 / 42 / 703		

COUNTY: ______ TWP. 12 RGE. 4 NE ¼ NW ¼ NW ¼ SEC. 14

(Well driller does not fill out)

Topo Map: ______

Well log classified By ______ Date 11/64

Courthouse located By ______ Date ______

Field located By ______ Date 11-64

Acc. w/o verification By ______ Date ______

______ Ft W of EL. Ground elevation 745

______ Ft N of SL. Depth to bedrock ______

1600 Ft E of WL. Bedrock elevation ______

800 Ft S of NL. Aquifer elevation 703

INSTRUCTIONS

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(19)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: Franklin

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin 10 mile test well in Highland Addition.

Name of owner: Ind. Pub-Co Address: Franklin

Name of Well Drilling Contractor: H R Lamb

Address: Carmel

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 83 ft. Date well was completed: 5-10-42
set bottom of screen at 83.

Diameter of outside casing or drive pipe: 10 in Length: —

Diameter of inside casing or liner: Length:

Diameter of Screen: 10 in Length: 10 ft Slot size: #60 Cook & lead packed

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☐ For public supply ☒ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐
probably

Static water level in completed well (Distance from ground to water level) 23 ft.

Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 30 Rate 325 g.p.m. Drawdown 55 ft.

Signature H. R. Lamb May 10-1942

Date T.M.K. 1-26-45

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET Copied by mk 4-65

WATER WELL LOG

(Well driller does not fill out)

COUNTY: Johnson TWP. 12N RGE. 4E ___ ¼ ___ ¼ NW ¼ SEC. 14

Topo Map: Franklin 7½'

Well log ~~classified~~ copied By 21 Date 4-63

Courthouse located By ___ Date ___

Field located By ___ Date ___

Acc. w/o verification By J. R. Crist W W Eng. Date WHL 4-65

___ Ft W of EL. Ground elevation ___

___ Ft N of SL. Depth to bedrock ___

___ Ft E of WL. Bedrock elevation ___

___ Ft S of NL. Aquifer elevation ___

Just east of old Interurban station up by Gene Browns'

[illegible] 1942

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	16
Blue hard pan	16	18
Sand & Gravel water bearing	18	24
Blue clay	24	37
Brown hard pan, sm. sd. streaks	37	71
Water gravel	71	83
Boulders & mud	83	85

REMARKS:

INSTRUCTIONS

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

(≈19)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: Franklin

Congressional township: 12 N Range: 4 E Number of section: _____

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin Water 6 inch test well #3 on Lot 17 on Highland Ave. East of Jounce Street.

Name of owner: Ind. Pub. Serv. Co. Address: _____

Name of Well Drilling Contractor: H. R. Lamb

Address: Carmel

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 160 ft. Date well was completed: July 21, 1942

Diameter of outside casing or drive pipe: 6 in Length: _____

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: _____ Length: _____ Slot size: _____

Type of Well: Drilled ☑ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☑ test Stock ☐

Method of Drilling: Cable Tools ☑ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) _____ ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

Signature H. R. Lamb July 21, 1942

Date TMK 1-26-45

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET Copied by mhl 4-65

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	0	10
Dry Gr.	10	12
Hard pan	12	25
Gr. formation, some water	25	27
Hard pan	27	35
Sandy hard pan	35	42
Gravel (static level 40')	42	50
Soft yelow clay	50	78
Gr.	78	84
Blue clay	84	86
Gr.	86	88.6
Sandy hard pan	88.6	95
Gravel	95	96
Blue clay	96	102
Gravel muddy	102	105
Blue clay	105	113
Gravel muddy	113	123
Fine muddy gravel	123	125
Hard gravel	125	129
Sandy clay	129	132
fine sand	132	153
Hard pan	153	156
Soft blue clay	156	160

REMARKS:

COUNTY: Johnson TWP. 12 N RGE. 4 E ¼ ¼ ¼ SEC. 14 (well driller does not fill out) (Comb)

Topo Map: Franklin 7½

Well log ~~classified~~ copied By WHL Date 4-65

Courthouse located By ____ Date ____

Field located By ____ Date ____

Acc. w/o verification By ____ Date ____

Can Not Be Verified -- 4-65

____ Ft W of EL. Ground elevation ____

____ Ft N of SL. Depth to bedrock ____

____ Ft E of WL. Bedrock elevation ____

____ Ft S of NL. Aquifer elevation ____

INSTRUCTIONS

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An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

(20)

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: Franklin

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Franklin Water Wells 6 inch Test No 1 on Clarence Miller at N W Cor. of N Walnut and Clark sts.

Name of owner: Ind Public Service Co Address: Franklin

Name of Well Drilling Contractor: H. R. Lamb. (

Address: Carmel.

Name of Drilling Equipment Operator:

INFORMATION ON THE WELL

Completed depth of well: 157 ft. Date well was completed: May '42

Diameter of outside casing or drive pipe: 6-5/8 Length:

Diameter of inside casing or liner: Length:

Diameter of Screen: Length: Slot size:

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other

Use of Well: For home ☐ For industry ☐ For public supply ☐ test Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) ft.

Bailer Test: Hours tested Rate g.p.m. Drawdown ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested Rate g.p.m. Drawdown ft.

Signature H R Lamb -- TMK 1-26-43

Date Copied by WLL 4-65

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Clay	1	20
Sand & Gravel	20	26
Brown hard pan	26	32
Sandy hard pan	32	65
Muddy sand & gravel	65	70
Sandy hard pan	70	76
Hard pan gravel streaks	76	78
Sandy hard pan	78	88
Hard pan sand & gravel streaks	88	93
Fine muddy sand	93	101
Muddy sand and gravel	101	110
Good gravel (static level 50')	110	116
Hard pan	116	120
Hard pan	120	123
Large muddy gravel (no raise of wt.)	123	125
Hard pan	125	132
Sandy Hard pan	132	137
Soft gritty clay	137	157
REMARKS:		

(Well driller does not fill out)

COUNTY: Johnson TWP. 12 N RGE. 4 E ¼ ¼ ¼ SEC. 14

Topo Map: Franklin 2

Well log submitted By [illegible] Date 4-65

Courthouse located By _____ Date _____

Field located By _____ Date _____

Acc. w/o verification By [illegible] Date 4-65

_____ Ft W of EL. Ground elevation _____

_____ Ft N of SL. Depth to bedrock _____

_____ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____

(Form 8)

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

(21)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 13

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: _____

Name of owner: Charles Barbee Address: St. Rd. 44 - Franklin

Name of Well Drilling Contractor: Charles Davis

Address: R 1 Shelbyville

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 63 ft. Date well was completed: 1956

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: _____ Length: 2 Slot size: #30

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 21 ft.

Bailer Test: Hours tested _____ Rate 14 g.p.m. Drawdown 10 ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 1½ Rate 18 g.p.m. Drawdown _____ ft.

~~Signature~~ Drillers Log

~~Date~~ Steen 2/5-9

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Fill & Topsoil	0	2
Clay	2	20
Sandy Clay	20	35
Sand & Gravel	35	39
Clay	39	60
Sand & Gravel	60	63
REMARKS: Seerkamps Realty & Ins.		
63 S. Water St.		
Franklin, Ind.		

(Well driller does not fill out)

COUNTY: Johnson TWP. 12N RGE. 4E SE ¼ NE ¼ SW ¼ SEC. 13

Topo Map: Johnson ~~[illegible]~~ ______ Ft W of EL. Ground elevation 730

Well log classified By DMM Date 7/64 1600 Ft N of SL. Depth to bedrock ______

Courthouse located By ______ Date ______ 2500 Ft E of WL. Bedrock elevation ______

Field located By Alan Date 6-10-60 ______ Ft S of NL. Aquifer elevation ______

Acc. w/o verification By ______ Date ______

INSTRUCTIONS

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(221)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 13

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: _____

Name of owner: Art Evans Address: R.R. 4 Franklin

Name of Well Drilling Contractor: Charles Davis

Address: _____

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 63 ft. Date well was completed: 1955

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: 3 1/2 Length: 2 Slot size: # 30

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 23 ft.

Bailer Test: Hours tested _____ Rate 14 g.p.m. Drawdown 7 ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

~~Signature~~ Drillers Log

~~Date~~ Steen-Kost 2-5-9

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Topsoil	0	1
Clay	1	15
Sand	15	21
Clay	21	45
Sand & Gravel 3 gpm	45	47
Clay	47	59
Sand & Gravel	59	63
REMARKS:		

COUNTY: Johnson TWP. 12 N RGE. 4 E SE ¼ NE ¼ SW ¼ SEC. 13

Topo Map: Franklin NE

Well log classified By Dunn Date 7/64

Courthouse located By _____ Date _____

Field located By Dean Date 6/19/68

Acc. w/o verification By _____ Date _____

~~1650~~ Ft W of EL. Ground elevation 730

~~1650~~ Ft N of SL. Depth to bedrock _____

~~2310~~ Ft E of WL. Bedrock elevation _____

_____ Ft S of NL. Aquifer elevation _____

2350 E. & 1600 N. of S.L.

(Well driller does not fill out)

INSTRUCTIONS

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(22)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Bob Bryant Entrad L-M Supply Co.

Name of owner: Franklin Homes Inc. Address: Franklin

Name of Well Drilling Contractor: Thompson for Fox & Sons

Address: Rt Shelbyville

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 131 ft. Date well was completed: 8/16/50

Diameter of outside casing or drive pipe: 4" Length: _____

Diameter of inside casing or liner: 4" Length: _____

Diameter of Screen: _____ Length: _____ Slot size: _____

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) _____ ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft.

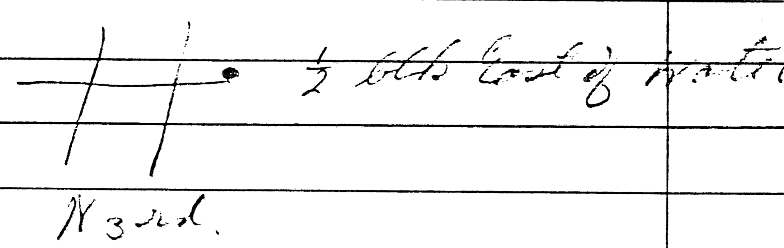
~~Signature~~ Drillers Log

Date Kost 1959

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Yellow Rock Clay	0	32
Gravel, Clay & Mud	32	35
Sandy Gray Clay	35	43
Clay & some Gravel	43	46
Gray Sandy Clay	46	70
Fine Yellow Sand & Clay	70	78
Sandy Gray Clay	78	87
Black Slate	87	125
? Stone	125	126
Blue Shale	126	131



REMARKS: Hole dry

COUNTY: Johnson

(Well driller does not fill out)

Topo Map: Franklin 7½

TWP. 12N RGE. 4E ___ ¼ ___ ¼ ___ ¼ SEC. 14

Well log classified By DMM Date 7/64
Courthouse located By ___ Date ___
Field located By Dennis Date 6/60
Acc. w/o verification By ___ Date ___

___ Ft W of EL. Ground elevation 730
___ Ft N of SL. Depth to bedrock 87
___ Ft E of WL. Bedrock elevation 645
___ Ft S of NL. Aquifer elevation ___

INSTRUCTIONS

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(23)

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Near Avon Ind.

Name of owner: Claschorn Address: ?

Name of Well Drilling Contractor: Gene Brown

Address: _____

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 63 ft. Date well was completed: 9/2/59

Diameter of outside casing or drive pipe: _____ Length: _____

Diameter of inside casing or liner: 4" Length: 63

Diameter of Screen: 3" drop Length: 4'6" Slot size: _____

Type of Well: Drilled ☒ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☒ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☒ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) 25- ft.

Bailer Test: Hours tested 2 Rate 15-26 g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested 2 1/2 Rate 16 g.p.m. Drawdown 7e 31 ft.

~~Signature~~ Driller

~~Date~~ Kost & Stein 3/61

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
Sand		15
Hardpan	15	52
Gravel	52	63

REMARKS:

(Well driller does not fill out)

COUNTY: Johnson TWP. 12 RGE. ___ ___ ¼ NE ¼ NE ¼ SEC. 14

Topo Map: Franklin 7½

Well log classified By BMM Date 7/64

Courthouse located By ___ Date ___

Field located By Stein Date 3/61

Acc. w/o verification By ___ Date ___

no one at home.

1100 Ft W of EL. Ground elevation 735

___ Ft N of SL. Depth to bedrock ___

___ Ft E of WL. Bedrock elevation ___

500 Ft S of NL. Aquifer elevation ___

INSTRUCTIONS

This Water Well Record form is designed to record the most essential data concerning a water well. We request that you be as accurate as possible in recording this information as it may be of great assistance in the planning and development of new water supplies.

An accurate location of the well is equally as important as an accurate well log. Please include all information possible in the space provided for well location.

As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

(24)
maybe

DIVISION OF WATER RESOURCES
INDIANA DEPARTMENT OF CONSERVATION
609 STATE OFFICE BUILDING
INDIANAPOLIS, INDIANA 46209
MElrose 3-6757

WATER WELL RECORD

INFORMATION ON WELL LOCATION

County in which well was drilled: Johnson Civil Township: _____

Congressional township: 12 N Range: 4 E Number of section: 14

(Fill in as completely as possible)

Describe in your own words the well location with respect to nearby towns, roads, streets or distinctive landmarks: Hamilton Ave. NE

Name of owner: Farm Bureau Co-op Locker Plant Address: Franklin

Name of Well Drilling Contractor: Fox & Sons

Address: R 6 Shelbyville

Name of Drilling Equipment Operator: _____

INFORMATION ON THE WELL

Completed depth of well: 65 ft. Date well was completed: 1-6-51

Diameter of outside casing or drive pipe: _____ Length: _____

Diameter of inside casing or liner: _____ Length: _____

Diameter of Screen: _____ Length: _____ Slot size: _____

Type of Well: Drilled ☐ Gravel Pack ☐ Driven ☐ Other _____

Use of Well: For home ☐ For industry ☐ For public supply ☐ Stock ☐

Method of Drilling: Cable Tools ☐ Rotary ☐ Rev. Rotary ☐ Jet ☐ Driven ☐

Static water level in completed well (Distance from ground to water level) _____ ft.

Bailer Test: Hours tested _____ Rate _____ g.p.m. Drawdown _____ ft. (Difference between static level and water level at end of test)

Pumping Test: Hours tested _____ Rate 25 g.p.m. Drawdown _____ ft.

Signature Drillers Log

Date Kast 195 9

FOR WELL LOG SPACE USE REVERSE SIDE OF THIS SHEET

WATER WELL LOG

FORMATIONS (Color, type of material, hardness, etc.)	From	To
REMARKS: 25 gpm with 47' drop pipe		

FOR ADMINISTRATIVE USE ONLY
(Well driller does not fill out)

COUNTY: Johnson TWP. 12N RGE. 4E SE ¼ NE ¼ NE ¼ SEC. 14

Topo Map: Franklin 7½

Well log classified By DMM Date 7/64
Courthouse located By ____ Date ____
Field located By Barnes Date 6/60
Acc. w/o verification By ____ Date ____

400 Ft W of EL. Ground elevation ____
____ Ft N of SL. Depth to bedrock ____
____ Ft E of WL. Bedrock elevation ____
800 Ft S of NL. Aquifer elevation ____

Forbes Plant

INSTRUCTIONS

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As specified in Chapter 6 of the Acts of 1959, a copy of this report must be submitted within thirty days after the completion of a well to the Division of Water Resources, Indiana Department of Conservation.

LIQUID WASTE REMOVAL, INC.
P.O. Box 795 • Greenwood, IN 46142
(317) 881-9754 • FAX (317) 889-0383

JOB WORK ORDER

19534

P.O. #	PHONE #	TYPE OF SERVICE	STARTING DATE	TIME IN
323708	317-736-7111	☒ TRANSPORTATION ☒ WASTE DISPOSAL ☒ LABORATORY ANALYSIS	4 12 199	☐ AM ☐ PM
WORK ORDERED BY: JERRY KEAN		TRUCK #		TIME OUT ☐ AM ☐ PM

BILL TO

ARVIN EXHAUST NORTH AMERICAN
1001 NORTH HURRICANE STREET
FRANKLIN, IN 46131

JOB LOCATION

COMMENTS

CLEANING, WASTE DISPOSAL

CUTTING AND REMOVAL OF ABOVE GROUND

FUEL OIL TANK.

CHARGES

BULK VOLUME:

= $

= $

DRUMS:

= $

= $

= $

= $

LABOR:

= $

TRANSPORTATION CHARGE: = $

TOTAL AMOUNT $8,390.00

I HEREBY ACKNOWLEDGE THE SATISFACTORY COMPLETION OF THE ABOVE DESCRIBED WORK

SIGNATURE

DATE COMPLETED 4/12/99

CUSTOMER COPY

GENERATORS WASTE PROFILE AND REQUEST FOR SPECIAL WASTE VERIFICATION NOTICE

(To be completed by generator and submitted to disposal facility prior to initial disposal of each regulated special waste)
(SEE INSTRUCTION BEFORE BEGINNING)

THIS VERIFICATION NOTICE IS A RESULT OF A SIGNIFICANT RAW MATERIAL CHANGE OR A PROCESS CHANGE. ☐YES ☒NO (If yes, consult 329 IAC 10-8.1-7(c))

CATEGORY OF WASTE: (required by 329 IAC 10-8.1-7(b)(6)) ☐A NOTE: If Category A, waste must be certified by IDEM

☒B VERIFICATION/PROFILE NO. 541404 EXP:

GENERATOR
Name: ARVIN EXHAUST SYSTEMS - FRANKLIN PLANT
Mailing Address: 1001 NORTH HURRICANE STREET
City: FRANKLIN State: IN Zip: 46131 Phone No. 317-736-7111

(this information is required by 329 IAC 10-8.1-7(a))
Generation Location: SAME
Street Address: City: State: Zip:
EPA Identification Number: IND 006414783

DISPOSAL FACILITY INFORMATION
Name of Disposal Facility: TWIN BRIDGES Opp No. 32-2
Location of Disposal Facility: DANVILLE, IN

WASTE NAME DIESEL FUEL SLUDGE
AMOUNT OF WASTE Enter total estimated annual amount of waste:
One-time only disposal: ☒YES ☐NO

DESCRIPTION OF PROCESS AND RAW MATERIALS THAT GENERATE THE WASTE: WASTE GENERATED FROM CLEANOUT OF ABOVE GROUND DIESEL FUEL TANK, WHICH STORED DIESEL FUEL.

(If additional space is needed, please use back side or additional sheet of paper)

SPECIAL REQUIREMENTS
Is waste subject to special handling requirements of 329 IAC 10-8.1-12? ☐YES ☒NO
Check all that are applicable:
- ☐ Generates fugitive dust.....(329 IAC 10-8.1-12(b))
- ☐ Hot or capable of generating heat.....(329 IAC 10-8.1-12(c)
- ☐ Regulated asbestos-containing material....(329 IAC 10-8.1-12(e), (f))
- ☐ Regulated as TSCA waste.....(329 IAC 10-8.1-12(g))
- ☐ FIFRA contaminated waste.....(329 IAC 10-8.1.12(h))

IF CHECKED PLEASE PROVIDE DOCUMENTATION
- ☐ Hazardous waste that was delisted form regulations...(329 IAC 10-8.1-12(l))
- ☐ Assigned by commissioner as Category B waste..... (329 IAC 10-8.1-7(b) (7))
- ☐ Waste that has been rendered non-hazardous. **NOTE: If so, waste is considered Category A and must be certified by IDEM.**

ENCLOSURES
Documentation used to make the waste determination required by 329 IAC 10-7.1.
If samples taken, the following must be included:
- ✓Sampling and Analysis Plan
- ✓Quality Assurance/Quality Control documentation
- ✓Analytical results

CERTIFICATION This waste described in the documentation accompanying this request for verification is a special waste as defined in 329 IAC 10-2-179. This waste is not a hazardous waste as described in 40 CFR 261, nor is it any other type of unauthorized waste. If applicable, the analytical data presented herein or attached hereto were derived from testing a representative sample taken in accordance with 40 CFR 261.20(c) or equivalent rules. If any changes occur in the character of the waste, the Generator shall notify the Contractor or Waste Management prior to providing the waste to the Contractor or Waste Management. The information submitted is, to the best of my knowledge, true, accurate, and complete.

X _____ DAN BOUCHER ENVIR COORD. 4/21/1999
Generator Signature (type or print name) Title Date

Precautions, Conditions, on Approval

Special Waste Decision ☐Approved ☐Disapproved

Technical Manager Signature Date

Landfill Representative (Optional) Date

Date: 4/21/1999

Profile/Verification Number: 541404

RE: Sampling Plan for (Gen. Name) Arvin Exhaust - Franklin Plant

The waste (waste name) Diesel Fuel Sludge from (generator name) Arvin Exhaust located at (address) 100 Hurricane Street was sampled by taking (# of) 3 scoops using a disposable scoop to fill a 32oz sized glass container with a Teflon lined lid. These samples were taken from the following locations (describe horizontal and vertical location if in a pile or box) Inside of Manway of Tank - 6 inches deep - 12 inches inside Tank.

This waste was generated over (provide approximate time period) 2 days and is representative of the waste produced. This waste is currently stored in a (describe type and size of container) Tank.

This representative sample was collected on (date) April, 1999 by (sampler) Matthew L. Woods and given to (person or lab) Environmental Service Group for analysis of the following parameters (describe all test parameters) TCLP Benzene, Flash Point, Paint Filter.

SIGNATURE

CERTIFICATE OF ANALYSIS

Liquid Waste Removal
P.O. Box 795
Greenwood, Indiana 46142

Attn: Gary Bush
Invoice Number:

Order #: 99-04-480
Date: 04/19/99 11:03
Work ID: 99-05 A.E.F.P. Sludge Sample
Date Received: 04/15/99
Date Completed: 04/16/99
Client Code: LIQUID_WASTE

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	99-05 Tank-A.S.T.		

This report may not be reproduced except in full, without the written approval of the laboratory. All results relate only to the items tested.
This report contains a total number of pages: 02

Certified By

ESG Laboratories
A2LA ACCREDITED
5933 WEST 71ST STREET INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670
A Member of THE ASTBURY GROUP

TEST RESULTS BY SAMPLE

Sample: 01AR 99-05 Tank-A.S.T. **Collected: 04/14/99** **Category: SLUDGE**

Test Description	Result	Limit	Units	Analyzed	By
Flashpoint By PMCC	>160	73	degrees F	04/16/99	BR
Paint Filter Test	FAIL			04/16/99	BR
TCLP Benzene	80.00	25	ug/L	04/16/99	RCB
TCLP ZHE Prep for VOCs	04/15/99				JLM

ESC Laboratories

5933 West 71st Street * Indianapolis, IN 46278

Phone (317) 290-1471 * Fax (317) 290-1670

CHAIN OF CUSTODY RECORD

Client Name: Liquid Waste Removal

ESG Work Order #: 9904480

Project No: 99-05

Project Name: A. E. F. P.

Sampler(s) Signature: [signature]

Total Number of Containers

Filtered (Y or N)

Preserv. Code

Analyses: Paint Filter; Flash; TCLP Benzene; Level III QA/QC

Preservation Codes: A = Acid, B = Base, C = Cool 4°

Stat.No	DATE	TIME	COMP	GRAB	STATION LOCATION ID	Total Number of Containers	Paint Filter	Flash	TCLP Benzene	Level III QA/QC	Comments
1	4/14/99	8:00 AM	X		TANK - A.S.T.	1	X	X	X	X	Rush - Per Bruce P.

Relinquished By:	Date / Time	Received By:	Date / Time
[signature]	4/15/99 2:05 PM	[signature]	4/15/99 2:05
Relinquished By:	Date / Time	Received By:	Date / Time
Relinquished By:	Date / Time	Received By:	Date / Time

Additional Information:

Turn Around Time: Normal ☐ Rush ☐ Report Due: _____

Are samples suspected to be: Flammable ☐ Corrosive ☐ Toxic ☐

Were samples received intact and properly preserved? Yes ☐ No ☐

Temp. Blank _____ °C

kmg\newcoc\xls

QA DATA REPORTING FORMS

Cover Letter

Client: Liquid Waste

ESG Lab Number: 9904480

Analysis: Ignitability (Method 1010)

QA Narrative:

The Level III QC Data for the Ignitability test only includes a Check Standard. The QC data was found to be within acceptable control limits.

Submitted By: Karen Groleau

Karen Groleau
Technical Director

ESG Laboratories
A2LA ACCREDITED
5933 WEST 71ST STREET INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
FAX (317) 290-1670
A Member of THE ASTBURY GROUP

ESG

FORM 1

INITIAL AND CONTINUING CALIBRATION VERIFICATION

WORK ORDER: **9904480**

ANALYTE	Date of Analysis	ICV True	ICV Found	ICV %Rec	CCV Found	CCV %Rec	CCV Found	CCV %Rec
Ignitability	4/16/99	81-90	88	Pass				

Concentration units: mg/L (ppm) TOX (ng)

Control Limits: Metals - 90-110% * Pre-distilled or Digested ICV's and CCV's Control Limit: 80-120%

NA = Not Applicable ** Outside the Control Limits

Definition: ICV's and CCV's are calibration standards that verifies that the initial calibration curve is linear and accurate. No data can be reported if the ICV or CCV is outside the specified control limits.

Ignitability Check Standard is Xylene, and has a Flash Point Range between 81-90 F.

f:\kg\QAcover\rev2

QA DATA REPORTING FORMS

Cover Page

Client: Liquid Waste

ESG Lab Number: 9904480

Analysis: TCLP Benzene (Method 1311 and 8260)

QA/QC Narrative:

The Level III QA/QC package includes summary QC data for Initial Calibrations, Calibrations Standards, GC/MS Tune Report, Method Blanks, Matrix Spike and Duplicate Data, Surrogate and Internal Standard Report. All QC data was found to be within acceptable control limits.

Submitted By: Karen Groleau

Karen Groleau
Technical Director

ESG Laboratories
A2LA ACCREDITED
5933 WEST 71ST STREET INDIANAPOLIS, INDIANA 46278
PHONE (317) 290-1471
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A Member of THE ASTBURY GROUP

CALIBRATION DATA

/021099/
10ppb => 0401002.D
20ppb => 0501003.D
80ppb => 0801006.D
120ppb => 1001008.D

Generated for Environmental Service Group, Inc.

Initial Calibration Report Last update: Mon Feb 22 15:02:10 1999

Data File: C:\DATA\022299\ 0301001.D
Operator: Ray Bische
Date Acquired: 22-Feb 1999
Method File: FULL_VOC.M
Sample Name: 40 ppb VOC Check
Miscellaneous Information: Daily Calibration Check
Bottle Number: 5
Total Number of Compounds Screened: 69

Min avg RRF for SPCC (#) =
Chloromethane 0.10
1,1-Dichloroethane 0.10
Chlorobenzene 0.30
Bromoform 0.10
1,1,2,2-Tetrachloroethane 0.30

Max RSD for CCC (*) = 30.0% (15.0%)

Level1 L00	0301001.D	Level4 L100	0901007.D
Level2 L03	0601004.D	Level5 L150	1101009.D
Level3 L06	0701005.D	Level6 L200	1201010.D

Results:

	Nu	Compound Name	RF1 L005	RF2 L030	RF3 L060	RF4 L100	RF5 L150	RF6 L200	AVG RF	RSD	Warning
	1	Dichlorodifluoromethan	0.179	0.333	20 0.245	0.318	120 0.182	-1.000	0.043	0.0%	29.0% QUAD
SP ok	2	Chloromethane	0.267	0.260	0.228	0.229	0.195	0.204	0.231	12.5%	
CC ok	3	Vinyl chloride	0.306	0.314	0.305	0.284	0.272	0.271	0.292	6.4%	
	4	Bromomethane	0.314	0.321	0.296	0.313	0.289	0.284	0.303	5.1%	
	5	Chloroethane	0.128	0.164	0.130	0.144	0.134	0.131	0.139	9.8%	
	6	Trichlorofluoromethane	0.811	0.679	0.656	0.643	0.571	0.550	0.652	14.2%	
	7	Ethyl ether	0.236	0.183	0.179	0.189	0.196	0.211	0.199	10.7%	
	8	Acrolein	10 0.036	0.030	0.031	0.030	0.031	0.028	0.031	8.4%	
CC ok	9	1,1-Dichloroethene	0.504	0.480	0.463	0.460	0.429	0.419	0.459	6.9%	
	10	1,1,2-Trichloro-1,2,2-tri	10 0.748	0.627	0.613	0.615	0.598	0.589	0.632	9.3%	
	11	Iodomethane	0.495	0.595	0.626	0.656	0.607	0.594	0.595	9.1%	
	12	Carbon disulfide	0.842	0.768	80 0.756	0.792	0.722	0.706	0.764	6.4%	
	13	Acetone	20 0.076	0.079	0.066	0.067	0.059	0.061	0.068	11.9%	
a	14	Allyl Chloride	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%	
	15	Methylene chloride	0.446	0.370	0.366	0.410	0.378	0.364	0.389	8.4%	
	16	trans-1,2-Dichloroethen	0.444	0.407	0.395	0.427	0.392	0.388	0.409	5.4%	
	17	Acrylonitrile	0.064	20 0.058	0.061	0.070	0.064	0.064	0.064	6.3%	
	18	Methyl-tert-butyl ether	0.851	0.741	0.726	0.835	0.786	0.784	0.787	6.2%	
SP ok	19	1,1-Dichloroethane	0.703	0.656	0.640	0.676	0.607	0.590	0.645	6.6%	
a	20	Chloroprene	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%	
	21	Vinyl acetate	0.788	0.741	0.722	0.816	0.770	0.742	0.763	4.6%	
	22	cis-1,2-Dichloroethene	0.509	0.502	0.503	0.513	0.468	0.459	0.492	4.6%	
	23	2-Butanone	0.027	0.031	0.031	0.033	0.030	0.030	0.030	6.5%	
	24	Ethyl acetate	0.035	0.038	0.034	0.039	0.037	0.036	0.036	4.7%	
a	25	Methacrylonitrile	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%	
CC ok	26	Chloroform	0.832	0.823	0.814	0.840	0.775	0.763	0.808	3.9%	
	27	1,1,1-Trichloroethane	0.664	0.642	0.648	0.678	0.662	0.665	0.660	2.0%	
	28	Dibromofluoromethane	0.703	0.686	0.702	0.706	0.650	0.638	0.681	4.3%	
	29	Pentafluorobenzene	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.0%	
	30	Carbon Tetrachloride	0.628	0.629	0.646	0.678	0.665	0.670	0.653	3.3%	
	31	Benzene	0.890	0.835	0.843	0.841	0.806	0.806	0.837	3.7%	
	32	1,2-Dichloroethane	0.447	0.434	0.444	0.451	0.431	0.434	0.440	1.9%	

File: C:\DATA\022299\ 0222VOC3.D

	Num	Compound Name	RF1 L005	RF2 L030	RF3 L060	RF4 L100	RF5 L150	RF6 L200	AVG RF	RSD
	33	1,4-Difluorobenzene	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.0%
	34	Trichloroethene	0.383	0.384	0.387	0.389	0.375	0.380	0.383	1.4%
CC ok	35	1,2-Dichloropropane	0.364	0.347	0.349	0.349	0.334	0.332	0.346	3.3%
	36	Dibromomethane	0.362	0.336	0.335	0.342	0.315	0.314	0.334	5.4%
a	37	Methyl methacrylate	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%
	38	Bromodichloromethane	0.750	0.747	0.758	0.770	0.746	0.746	0.753	1.3%
	39	2-Nitropropane	0.102	0.097	0.105	0.116	0.111	0.113	0.107	6.4%
	40	2-Chloroethyl vinyl ethe	0.198	0.197	0.203	0.228	0.208	0.214	0.208	5.7%
	41	cis-1,3-Dichloropropene	0.584	0.562	0.563	0.572	0.544	0.544	0.562	2.8%
	42	4-Methyl-2-Pentanone	0.316	0.299	0.286	0.307	0.281	0.284	0.296	4.7%
	43	Toluene-d8	0.958	0.902	0.930	0.914	0.892	0.888	0.914	2.9%
CC ok	44	Toluene	0.931	0.907	0.921	0.915	0.872	0.880	0.904	2.6%
	45	trans-1,3-Dichloroprope	0.527	0.527	0.529	0.546	0.520	0.525	0.529	1.7%
	46	1,1,2-Trichloroethane	0.322	0.327	0.324	0.331	0.318	0.313	0.322	2.0%
	47	Ethyl methacrylate	0.493	0.479	0.479	0.511	0.474	0.474	0.485	3.0%
	48	Tetrachloroethene	0.553	0.477	0.480	0.477	0.464	0.488	0.490	6.5%
	49	2-Hexanone	0.201	0.210	0.218	0.231	0.213	0.219	0.215	4.7%
	50	Dibromochloromethane	0.696	0.709	0.716	0.740	0.716	0.730	0.718	2.2%
a	51	1,2-Dibromoethane	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%
	52	Chlorobenzene-d5	1.000	1.000	1.000	1.000	1.000	1.000	1.000	0.0%
SP ok	53	Chlorobenzene	0.846	0.839	0.852	0.861	0.838	0.860	0.849	1.2%
a	54	1,1,1,2-Tetrachloroetha	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%
CC ok	55	Ethylbenzene	1.408	1.396	1.404	1.393	1.309	1.342	1.375	2.9%
	56	p,m-Xylenes	0.518	0.468	0.467	0.460	0.410	0.405	0.455	9.2%
	57	o-Xylene	0.507	0.462	0.470	0.470	0.409	0.400	0.453	9.0%
	58	Styrene	0.880	0.793	0.814	0.808	0.716	0.707	0.786	8.3%
SP ok	59	Bromoform	0.453	0.476	0.488	0.522	0.499	0.509	0.491	5.0%
	60	4-Bromofluorobenzene	0.850	0.809	0.848	0.844	0.807	0.812	0.828	2.5%
	61	1,2,3-Trichloropropane	0.455	0.476	0.472	0.499	0.466	0.470	0.473	3.1%
SP ok	62	1,1,2,2-Tetrachloroetha	0.653	0.661	0.654	0.678	0.629	0.631	0.651	2.9%
a	63	trans-1,4-dichloro-2-But	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%
a	64	Pentachloroethane	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%
	65	1,3-Dichlorobenzene	0.926	0.869	0.861	0.813	0.658	0.646	0.796	14.7%
	66	1,4-Dichlorobenzene	0.884	0.839	0.833	0.786	0.622	0.623	0.764	15.0%
	67	1,2-Dichlorobenzene	0.842	0.804	0.786	0.749	0.602	0.590	0.729	14.7%
a	68	1,2-Dibromo-3-chloropr	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%
a	69	1,2,4-Trichlorobenzene	-1.000	0.000	0.000	0.000	0.000	0.000	####	-100.0%

Calibration is VALID.

System Performance Compounds: 5 out of 5 OK.
Calibration Check Compounds: 6 out of 6 OK.

a Appendix IX extra compounds
** Compounds NOT Calibrated

Daily Calibration Check Report 40 ug/L

Data File: C:\DATA\041699\ 0416VOC.D

Operator: Ray Bische
Date Acquired: 16 Apr 99 11:05 am
Last Calibration Update: Fri Apr 16 11:37:38 1999
Method File: FULL_VOC.M
Sample Name: 40 ppb VOC Check
Miscellaneous Information: Daily Calibration Check
Bottle Number: 2
Total Number of Compounds Screened: 69

Min avg RRF for SPCC (#) =
Chloromethane 0.10
1,1-Dichloroethane 0.10
Chlorobenzene 0.30
Bromoform 0.10
1,1,2,2-Tetrachloroethane 0.30

Max RSD for CCC (*) = 30.0% (15.0%)

Results:

	Num	Compound Name	Calib Amt	Avg RRF	Calc RRF	Calc Amt	RRF RPD	20% Limit	hck:
	1	Dichlorodifluoromethane	40	0.4532	0.0000	0.00	200%	***	
SP ok	2	Chloromethane	40	0.2306	0.2290	39.72	1%		
CC ok	3	Vinyl chloride	40	0.2920	0.2628	36.00	11%		
	4	Bromomethane	40	0.3028	0.2495	32.95	19%		
	5	Chloroethane	40	0.1385	0.1156	33.37	18%		
	6	Trichlorofluoromethane	40	0.6519	0.6186	37.95	5%		
	7	Ethyl ether	40	0.1989	0.1901	38.24	5%		
	8	Acrolein	40	0.0309	0.0000	0.20	200%	***	
CC ok	9	1,1-Dichloroethene	40	0.4592	0.4183	36.44	9%		
	10	1,1,2-Trichloro-1,2,2-trifluoro	40	0.6317	0.5974	44.40	6%		
	11	Iodomethane	40	0.5954	0.5170	34.73	14%		
	12	Carbon disulfide	40	0.7644	0.6730	35.22	13%		
	13	Acetone	40	0.0680	0.0782	46.00	-14%		
a	14	Allyl Chloride	40	########	0.0130	0.00	200%	***	
	15	Methylene chloride	40	0.3890	0.3673	37.77	6%		
	16	trans-1,2-Dichloroethene	40	0.4088	0.3425	33.51	18%		
	17	Acrylonitrile	40	0.0636	0.0586	36.87	8%		
	18	Methyl-tert-butyl ether	40	0.7872	0.6631	33.70	17%		
SP ok	19	1,1-Dichloroethane	40	0.6454	0.5613	34.79	14%		
a	20	Chloroprene	40	########	0.0588	0.00	200%	***	
	21	Vinyl acetate	40	0.7631	0.6812	35.70	11%		
	22	cis-1,2-Dichloroethene	40	0.4925	0.4228	34.34	15%		
	23	2-Butanone	40	0.0304	0.0277	36.54	9%		
	24	Ethyl acetate	40	0.0365	0.0321	41.29	13%		
a	25	Methacrylonitrile	40	########	0.0023	0.00	200%	***	
CC ok	26	Chloroform	40	0.8077	0.7068	35.00	13%		
	27	1,1,1-Trichloroethane	40	0.6599	0.5630	34.12	16%		
	28	Dibromofluoromethane	50	0.6810	0.6817	50.05	0%	SURR	
	29	Pentafluorobenzene	40	1.0000	1.0000	40.00	0%	ISTD	*
	30	Carbon Tetrachloride	40	0.6528	0.5427	33.25	18%		
	31	Benzene	40	0.8371	0.7508	35.87	11%		
	32	1,2-Dichloroethane	40	0.4401	0.3406	30.96	25%	***	
	33	1,4-Difluorobenzene	40	1.0000	1.0000	40.00	0%	ISTD	
	34	Trichloroethene	40	0.3830	0.3481	36.35	10%		
CC ok	35	1,2-Dichloropropane	40	0.3460	0.2902	33.54	18%		
	36	Dibromomethane	40	0.3340	0.2804	33.57	17%		
a	37	Methyl methacrylate	40	########	0.0000	0.00	200%	***	
	38	Bromodichloromethane	40	0.7530	0.6402	34.01	16%		
	39	2-Nitropropane	40	0.1075	0.0776	27.44	32%	***	
	40	2-Chloroethyl vinyl ether	40	0.2081	0.1849	35.53	12%		
	41	cis-1,3-Dichloropropene	40	0.5616	0.5040	35.90	11%		
	42	4-Methyl-2-Pentanone	40	0.2956	0.2379	32.20	22%	***	*
	43	Toluene-d8	50	0.9141	0.8418	46.05	8%	SURR	
CC ok	44	Toluene	40	0.9042	0.7766	34.36	15%		
	45	trans-1,3-Dichloropropene	40	0.5290	0.4498	34.01	16%		

File: C:\DATA\041699\ 0416VOC.D

	Num	Compound Name	Calib Amt	Avg RRF	Calc RRF	Calc Amt	RPD	Type:	chck:
	46	1,1,2-Trichloroethane	40	0.3224	0.2822	35.01	13%		
	47	Ethyl methacrylate	40	0.4851	0.4428	36.52	9%		
	48	Tetrachloroethene	40	0.4898	0.4781	39.04	2%		
	49	2-Hexanone	40	0.2152	0.1889	35.11	13%		
	50	Dibromochloromethane	40	0.7178	0.6296	35.08	13%		
a	51	1,2-Dibromoethane	40	########	0.0000	0.00	200%	***	
	52	Chlorobenzene-d5	40	1.0000	1.0000	40.00	0%	ISTD	
SP ok	53	Chlorobenzene	40	0.8492	0.7788	36.68	9%		
a	54	1,1,1,2-Tetrachloroethane	40	########	0.0000	0.00	200%	***	
CC ok	55	Ethylbenzene	40	1.3754	1.2187	35.44	12%		
	56	p,m-Xylenes	80	0.4548	0.4503	79.21	1%		
	57	o-Xylene	40	0.4529	0.4422	39.05	2%		
	58	Styrene	40	0.7863	0.7745	39.40	2%		
SP ok	59	Bromoform	40	0.4912	0.4271	34.78	14%		
	60	4-Bromofluorobenzene	50	0.8282	0.8170	49.32	1%	SURR	
	61	1,2,3-Trichloropropane	40	0.4730	0.4378	37.03	8%		
SP ok	62	1,1,2,2-Tetrachloroethane	40	0.6510	0.6280	38.58	4%		
a	63	trans-1,4-dichloro-2-Butene	40	########	0.0000	0.00	200%	***	
a	64	Pentachloroethane	40	########	0.0000	0.00	200%	***	
	65	1,3-Dichlorobenzene	40	0.7955	0.7809	39.27	2%		
	66	1,4-Dichlorobenzene	40	0.7645	0.7696	40.27	-1%		
	67	1,2-Dichlorobenzene	40	0.7288	0.7186	39.44	1%		
a	68	1,2-Dibromo-3-chloropropane	40	########	0.0000	0.00	200%	***	
a	69	1,2,4-Trichlorobenzene	40	########	0.0000	0.00	200%	***	

Calibration check is OK.

System Performance Check: 5 out of 5 ok.
Calibration Check: 6 out of 6 ok.

SURR SUMMARY REPORT: 50 ug/L

FILE: C:\DAT 0416VOC.D

	Compound Name:	R.T.:	Area:	Avg Calib Area	Calc Result	% Rec	% Area		
28	Dibromofluoromethane	4.01	4435600	3777087	50.05	100%	117%	ok	86% - 118%
43	Toluene-d8	8.58	6645467	6010945	46.05	92%	111%	ok	88% - 110%
60	4-Bromofluorobenzene	14.58	5317000	4661801	49.32	99%	114%	ok	86% - 115%

ISTD SUMMARY REPORT: 40 ug/L

FILE: C:\DATA\0 0416VOC.

	Compound Name:	R.T.:	Area:	Avg Calib Area	Calc Result	% Rec	% Area
29	Pentafluorobenzene	4.20	5205111	4378455	40.00	100%	119%
33	1,4-Difluorobenzene	5.51	6315374	5226700	40.00	100%	121%
52	Chlorobenzene-d5	11.76	5206203	4483994	40.00	100%	116%

a Appendix IX extra compound
** Compounds NOT Calibrated

Environmental Service Group, Inc.

Purgeable Volatile Organics Summary Report

Data File:	**C:\DATA\041699\ 0416VOC.D**
Operator:	Ray Bische
Date Acquired:	16 Apr 99 11:05 am
Method File:	FULL_VOC.M
Sample Name:	40 ppb VOC Check
Miscellaneous Information:	Daily Calibration Check
Bottle Number:	2
Total Number of Compounds Screened:	69

Results:

	Nu	Compound Name	R.T.	Area	Amount	Units	Type:	ND	BQL	QL
	1	Dichlorodifluoromethane	0.00	0	0.00	ug/L		*		
	2	Chloromethane	1.06	1191977	39.72	ug/L			*	*
	3	Vinyl chloride	1.11	1368037	36.00	ug/L			*	*
	4	Bromomethane	1.25	1298570	32.95	ug/L			*	*
	5	Chloroethane	1.30	601564	33.37	ug/L			*	*
	6	Trichlorofluoromethane	1.43	3219828	37.95	ug/L			*	*
	7	Ethyl ether	1.63	989684	38.24	ug/L			*	*
	8	Acrolein	0.00	0	0.00	ug/L		*		
	9	1,1-Dichloroethene	1.73	2177274	36.44	ug/L			*	*
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	1.74	3109707	37.83	ug/L			*	*
	11	Iodomethane	1.81	2690850	34.73	ug/L			*	*
	12	Carbon disulfide	1.84	3503245	35.22	ug/L			*	*
	13	Acetone	1.81	406804	46.00	ug/L			*	*
a	14	Allyl Chloride	2.07	67546	0.00	ug/L		*		
	15	Methylene chloride	2.07	1911767	37.77	ug/L			*	*
	16	trans-1,2-Dichloroethene	2.28	1782574	33.51	ug/L			*	*
	17	Acrylonitrile	2.28	304981	36.87	ug/L			*	*
	18	Methyl-tert-butyl ether	2.34	3451679	33.70	ug/L			*	*
	19	1,1-Dichloroethane	2.65	2921878	34.79	ug/L			*	*
a	20	Chloroprene	2.28	306101	0.00	ug/L		*		
	21	Vinyl acetate	2.79	3545548	35.70	ug/L			*	*
	22	cis-1,2-Dichloroethene	3.29	2200931	34.34	ug/L			*	*
	23	2-Butanone	3.42	144427	36.54	ug/L			*	*
	24	Ethyl acetate	3.54	167103	35.19	ug/L			*	*
a	25	Methacrylonitrile	3.53	11829	0.00	ug/L		*		
	26	Chloroform	3.77	3679079	35.00	ug/L			*	*
	27	1,1,1-Trichloroethane	3.94	2930482	34.12	ug/L			*	*
	28	Dibromofluoromethane	4.01	4435600	50.05	ug/L	SURR	-	-	-
	29	Pentafluorobenzene	4.20	5205111	40.00	ug/L	ISTD	-	-	-
	30	Carbon Tetrachloride	4.20	2824874	33.25	ug/L			*	*
	31	Benzene	4.56	4741506	35.87	ug/L			*	*
	32	1,2-Dichloroethane	4.63	2151018	30.96	ug/L			*	*
	33	1,4-Difluorobenzene	5.51	6315374	40.00	ug/L	ISTD	-	-	-
	34	Trichloroethene	5.94	2198340	36.35	ug/L			*	*
	35	1,2-Dichloropropane	6.36	1832419	33.54	ug/L			*	*
	36	Dibromomethane	6.61	1770718	33.57	ug/L			*	*
a	37	Methyl methacrylate	0.00	0	0.00	ug/L		*		
	38	Bromodichloromethane	7.08	4043212	34.01	ug/L			*	*
	39	2-Nitropropane	7.60	490031	28.88	ug/L			*	*
	40	2-Chloroethyl vinyl ether	7.95	1167411	35.53	ug/L			*	*
	41	cis-1,3-Dichloropropene	8.08	3182640	35.90	ug/L			*	*
	42	4-Methyl-2-Pentanone	8.60	1502676	32.20	ug/L			*	*
	43	Toluene-d8	8.58	6645467	46.05	ug/L	SURR	-	-	-

	44	Toluene	8.73	4904696	34.36	ug/L			*	*
	45	trans-1,3-Dichloropropene	9.41	2840506	34.01	ug/L			*	*
	46	1,1,2-Trichloroethane	9.75	1782263	35.01	ug/L			*	*
	47	Ethyl methacrylate	9.87	2305556	36.52	ug/L			*	*
	48	Tetrachloroethene	9.90	2488990	39.04	ug/L			*	*
	49	2-Hexanone	10.52	983375	35.11	ug/L			*	*
	50	Dibromochloromethane	10.53	3277928	35.08	ug/L			*	*
a	51	1,2-Dibromoethane	0.00	0	0.00	ug/L		*		
	52	Chlorobenzene-d5	11.76	5206203	40.00	ug/L	ISTD	-	-	-
	53	Chlorobenzene	11.81	4054463	36.68	ug/L			*	*
a	54	1,1,1,2-Tetrachloroethane	0.00	0	0.00	ug/L		*		
	55	Ethylbenzene	12.21	6344683	35.44	ug/L			*	*
	56	p,m-Xylenes	12.52	4688897	79.21	ug/L			*	*
	57	o-Xylene	13.38	2301951	39.05	ug/L			*	*
	58	Styrene	13.45	4032153	39.40	ug/L			*	*
	59	Bromoform	13.74	2223449	34.78	ug/L			*	*
	60	4-Bromofluorobenzene	14.58	5317000	49.32	ug/L	SURR	-	-	-
	61	1,2,3-Trichloropropane	15.10	2279507	37.03	ug/L			*	*
	62	1,1,2,2-Tetrachloroethane	15.17	3269387	38.58	ug/L			*	*
a	63	trans-1,4-dichloro-2-Butene	0.00	0	0.00	ug/L		*		
a	64	Pentachloroethane	0.00	0	0.00	ug/L		*		
	65	1,3-Dichlorobenzene	17.08	4065651	39.27	ug/L			*	*
	66	1,4-Dichlorobenzene	17.32	4006875	40.27	ug/L			*	*
	67	1,2-Dichlorobenzene	18.14	3741144	39.44	ug/L			*	*
a	68	1,2-Dibromo-3-chloropropane	0.00	0	0.00	ug/L		*		
a	69	1,2,4-Trichlorobenzene	0.00	0	0.00	ug/L		*		

SURR SUMMARY REPORT: 50 ug/L

FILE: C:\DATA\041699\ 0416VOC.D

	Compound Name:	Area:	Avg Calib Area	Calculated Result	% Rec	% Area				
28	Dibromofluoromethane	4435600	3777087	50.05	100%	117%	ok	86%	-	118%
43	Toluene-d8	6645467	6010945	46.05	92%	111%	ok	88%	-	110%
60	4-Bromofluorobenzene	5317000	4661801	49.32	99%	114%	ok	86%	-	115%

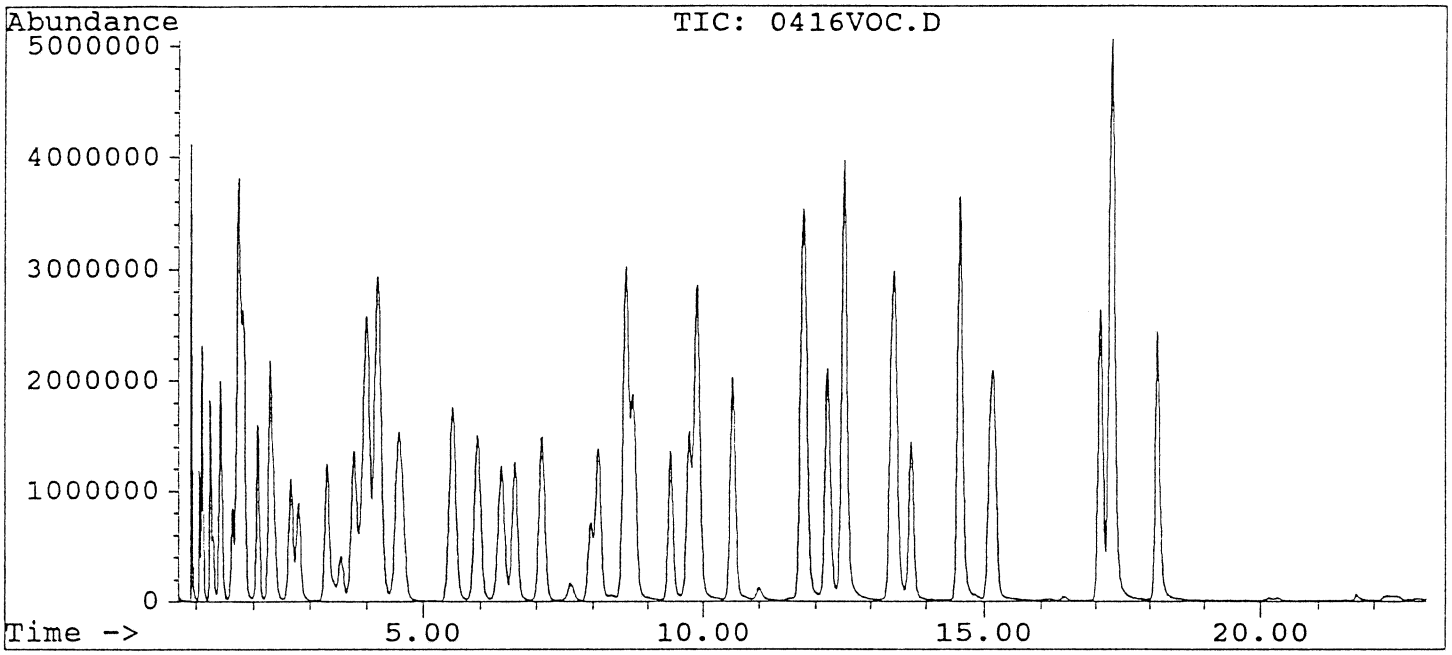
ISTD SUMMARY REPORT: 40 ug/L

FILE: C:\DATA\041699\ 0416VOC.D

	Compound Name:	R.T.:	Area:	Avg Calib Area	Calculated Result	% Rec	% Area
29	Pentafluorobenzene	4.20	5205111	4378455	40.00	100%	119%
33	1,4-Difluorobenzene	5.51	6315374	5226700	40.00	100%	121%
52	Chlorobenzene-d5	11.76	5206203	4483994	40.00	100%	116%

a Appendix IX extra compounds
** Compounds NOT Calibrated

File: C:\DATA\041699\0416VOC.D
Operator: Ray Bische
Date Acquired: 16 Apr 99 11:05 am
Method File: FULL_VOC.M
Sample Name: 40 ppb VOC Check
Misc Info: Daily Calibration Check
Vial Number : 2
Multiplier : 1



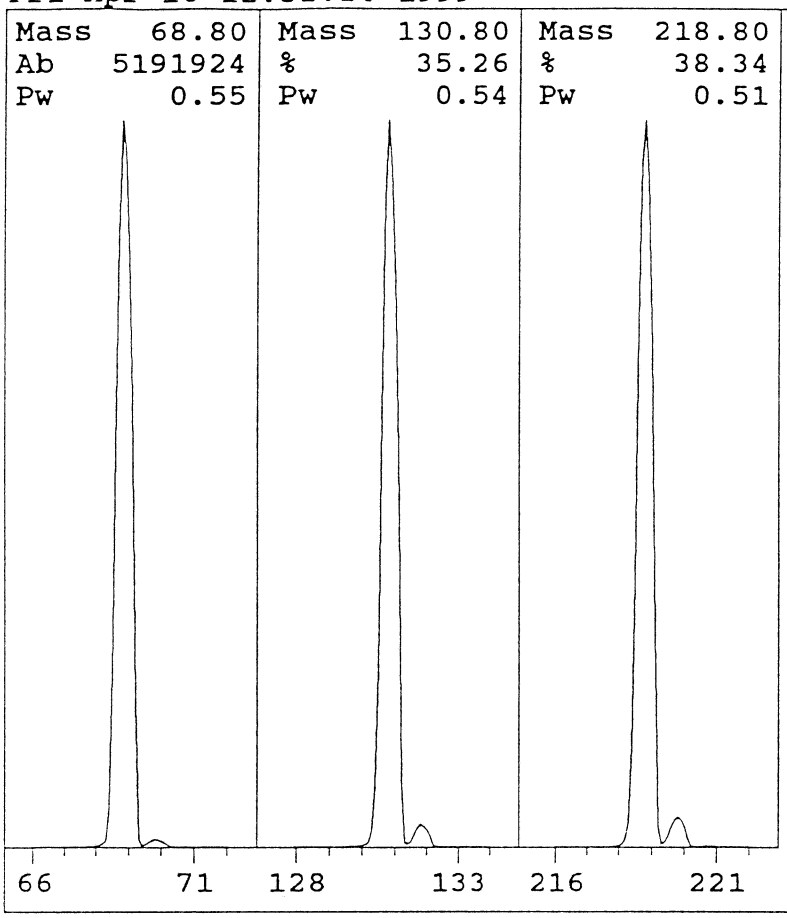
Number of compounds in database: 69

GC/MS Tune Data

HP5971

RB

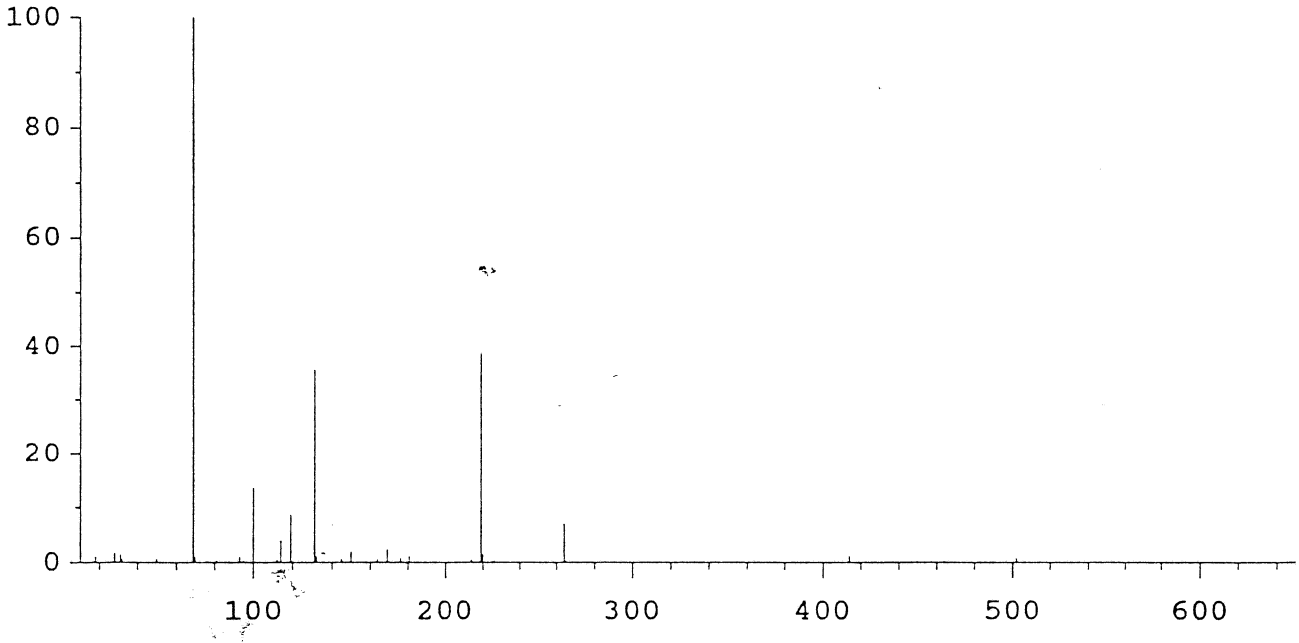
Fri Apr 16 12:52:20 1999 C:\CHEMPC\EXE\BFB.U



EMVolts	2106	AmuGain	419
X-Ray	68.4	AmuOffs	72
Emission	ON	219Wid	-0.027
MS Temp	117	TTI	OFF
Vacuum	14	DC Pol	NEG
Samples	16	Repeller	14.99
Averages	1	IonFocus	67.5
StepSize	0.10	EntLens	25.10
MassGain	200	EntOffs	13.55
MassOffs	15	Filament	2

PFTBA OPEN

Scan: 10.00 - 650.00 Samples: 16 Thresh: 500
111 peaks Base: 68.90 Abundance: 4473344

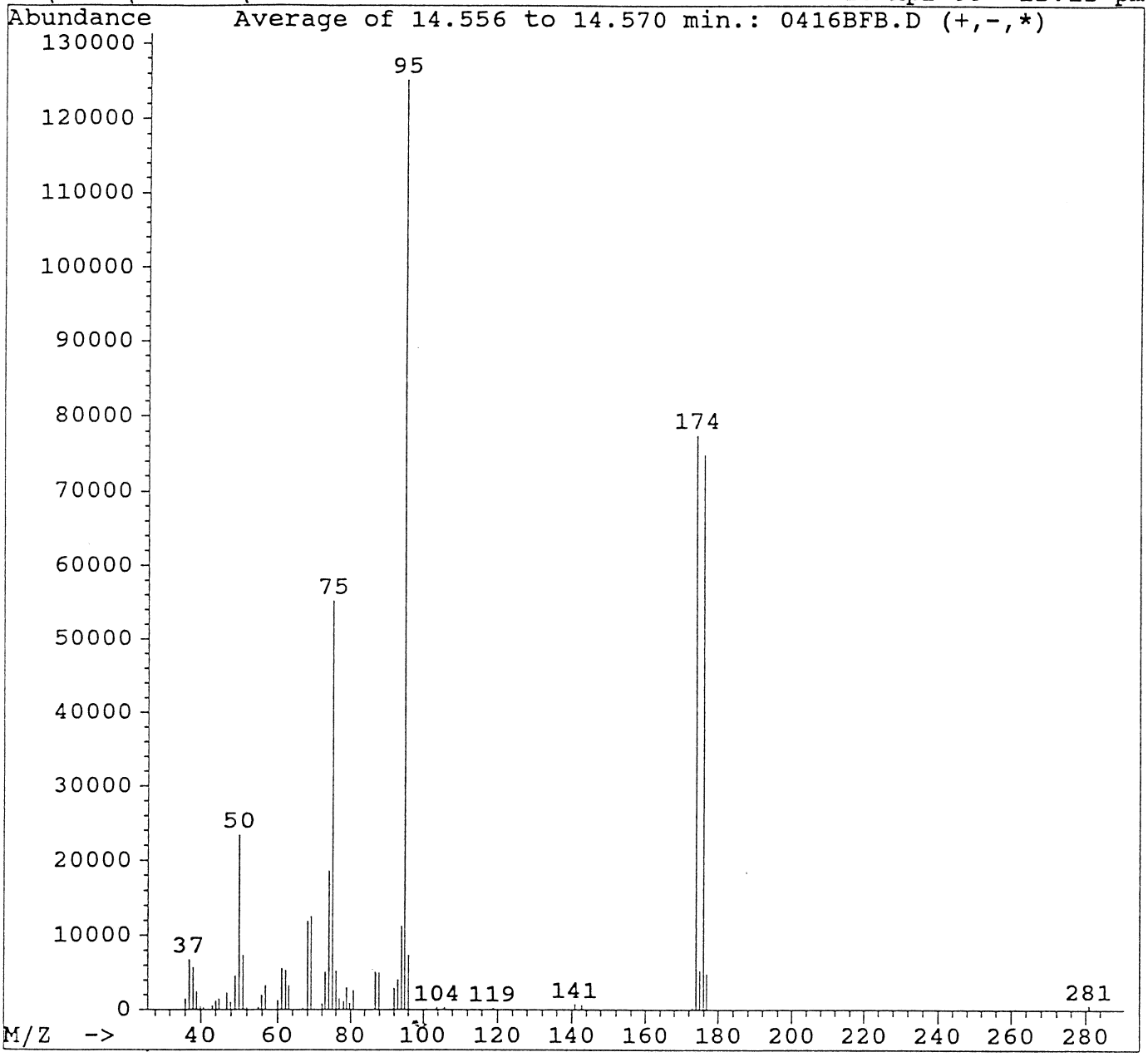


Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
68.90	4473344	100.00	69.90	45840	1.02
130.90	1589760	35.54	131.90	50272	3.16
218.85	1729024	38.65	219.85	68856	3.98

BFB 624 Results

RB

C:\DATA\041699\0416BFB.D 16 Apr 99 12:12 pm



Peak Apex is scan: 1943
Average of 3 scans: 1942,1943,1944 minus background scan 1914

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	15	40	18.7	PASS
75	95	30	60	44.1	PASS
95	95	100	100	100.0	PASS
96	95	5	9	5.9	PASS
173	174	0	2	0.4	PASS
174	95	50	100	61.9	PASS
175	174	5	9	6.9	PASS
176	174	95	101	96.6	PASS
177	176	5	9	6.4	PASS

BLANK DATA

Environmental Service Group, Inc.

Purgeable Volatile Organics Summary Report

Data File:	C:\DATA\041699\ 0416BLK.D
Operator:	Ray Bische
Date Acquired:	16 Apr 99 1:11 pm
Method File:	FULL_VOC.M
Sample Name:	Blank
Miscellaneous Information:	Daily Quantitation Blank
Bottle Number:	3
Total Number of Compounds Screened:	69

Results:

	Nu	Compound Name	R.T.	Area	Amount	Units	Type:	ND	BQL	QL
	1	Dichlorodifluoromethane	0.00	0	0.00	ug/L		*		
	2	Chloromethane	1.09	24285	0.87	ug/L		*		
	3	Vinyl chloride	0.00	0	0.00	ug/L		*		
	4	Bromomethane	1.25	11272	0.31	ug/L		*		
	5	Chloroethane	0.00	0	0.00	ug/L		*		
	6	Trichlorofluoromethane	1.73	110358	1.40	ug/L		*		
	7	Ethyl ether	1.60	2818	0.12	ug/L		*		
	8	Acrolein	1.26	2736	0.73	ug/L		*		
	9	1,1-Dichloroethene	1.70	2805	0.05	ug/L		*		
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	1.73	110358	1.44	ug/L			*	
	11	Iodomethane	0.00	0	0.00	ug/L		*		
	12	Carbon disulfide	1.80	4305	0.05	ug/L		*		
	13	Acetone	1.78	100225	12.17	ug/L			*	
a	14	Allyl Chloride	0.00	0	0.00	ug/L		*		
	15	Methylene chloride	2.04	10227	0.22	ug/L		*		
	16	trans-1,2-Dichloroethene	2.25	1625	0.03	ug/L		*		
	17	Acrylonitrile	0.00	0	0.00	ug/L		*		
	18	Methyl-tert-butyl ether	2.29	12843	0.13	ug/L		*		
	19	1,1-Dichloroethane	0.00	0	0.00	ug/L		*		
a	20	Chloroprene	0.00	0	0.00	ug/L		*		
	21	Vinyl acetate	2.82	100619	1.09	ug/L		*		
	22	cis-1,2-Dichloroethene	0.00	0	0.00	ug/L		*		
	23	2-Butanone	3.37	1154	0.31	ug/L		*		
	24	Ethyl acetate	0.00	0	0.00	ug/L		*		
a	25	Methacrylonitrile	0.00	0	0.00	ug/L		*		
	26	Chloroform	0.00	0	0.00	ug/L		*		
	27	1,1,1-Trichloroethane	0.00	0	0.00	ug/L		*		
	28	Dibromofluoromethane	3.97	4239437	51.36	ug/L	SURR	-	-	-
	29	Pentafluorobenzene	4.16	4848597	40.00	ug/L	ISTD	-	-	-
	30	Carbon Tetrachloride	4.16	17538	0.22	ug/L		*		
	31	Benzene	4.50	1592	0.01	ug/L		*		
	32	1,2-Dichloroethane	4.16	20775	0.34	ug/L		*		
	33	1,4-Difluorobenzene	5.49	5607925	40.00	ug/L	ISTD	-	-	-
	34	Trichloroethene	0.00	0	0.00	ug/L		*		
	35	1,2-Dichloropropane	0.00	0	0.00	ug/L		*		
	36	Dibromomethane	0.00	0	0.00	ug/L		*		
a	37	Methyl methacrylate	0.00	0	0.00	ug/L		*		
	38	Bromodichloromethane	0.00	0	0.00	ug/L		*		
	39	2-Nitropropane	7.53	671	0.04	ug/L		*		
	40	2-Chloroethyl vinyl ether	0.00	0	0.00	ug/L		*		
	41	cis-1,3-Dichloropropene	0.00	0	0.00	ug/L		*		
	42	4-Methyl-2-Pentanone	8.55	32944	0.79	ug/L		*		
	43	Toluene-d8	8.56	5968523	46.58	ug/L	SURR	-	-	-

44	Toluene	8.70	4233	0.03	ug/L		*		
45	trans-1,3-Dichloropropene	0.00	0	0.00	ug/L		*		
46	1,1,2-Trichloroethane	0.00	0	0.00	ug/L		*		
47	Ethyl methacrylate	9.90	6430	0.11	ug/L		*		
48	Tetrachloroethene	9.88	55892	0.98	ug/L		*		
49	2-Hexanone	0.00	0	0.00	ug/L		*		
50	Dibromochloromethane	0.00	0	0.00	ug/L		*		
a 51	1,2-Dibromoethane	0.00	0	0.00	ug/L		*		
52	Chlorobenzene-d5	11.74	4671448	40.00	ug/L	ISTD	-	-	-
53	Chlorobenzene	11.79	2969	0.03	ug/L		*		
a 54	1,1,1,2-Tetrachloroethane	0.00	0	0.00	ug/L		*		
55	Ethylbenzene	12.51	12891	0.08	ug/L		*		
56	p,m-Xylenes	12.50	3236	0.06	ug/L		*		
57	o-Xylene	0.00	0	0.00	ug/L		*		
58	Styrene	13.43	1254	0.01	ug/L		*		
59	Bromoform	0.00	0	0.00	ug/L		*		
60	4-Bromofluorobenzene	14.55	4922953	50.90	ug/L	SURR	-	-	-
61	1,2,3-Trichloropropane	0.00	0	0.00	ug/L		*		
62	1,1,2,2-Tetrachloroethane	0.00	0	0.00	ug/L		*		
a 63	trans-1,4-dichloro-2-Butene	0.00	0	0.00	ug/L		*		
a 64	Pentachloroethane	17.26	563407	0.00	ug/L		*		
65	1,3-Dichlorobenzene	17.10	4918	0.05	ug/L		*		
66	1,4-Dichlorobenzene	17.28	5028	0.06	ug/L		*		
67	1,2-Dichlorobenzene	0.00	0	0.00	ug/L		*		
a 68	1,2-Dibromo-3-chloropropane	0.00	0	0.00	ug/L		*		
a 69	1,2,4-Trichlorobenzene	0.00	0	0.00	ug/L		*		

SURR SUMMARY REPORT: 50 ug/L

FILE: C:\DATA\041699\ 0416BLK.D

	Compound Name:	Area:	Avg Calib Area	Calculated Result	% Rec	% Area				
28	Dibromofluoromethane	4239437	3777087	51.36	103%	112%	ok	86%	-	118%
43	Toluene-d8	5968523	6010945	46.58	93%	99%	ok	88%	-	110%
60	4-Bromofluorobenzene	4922953	4661801	50.90	102%	106%	ok	86%	-	115%

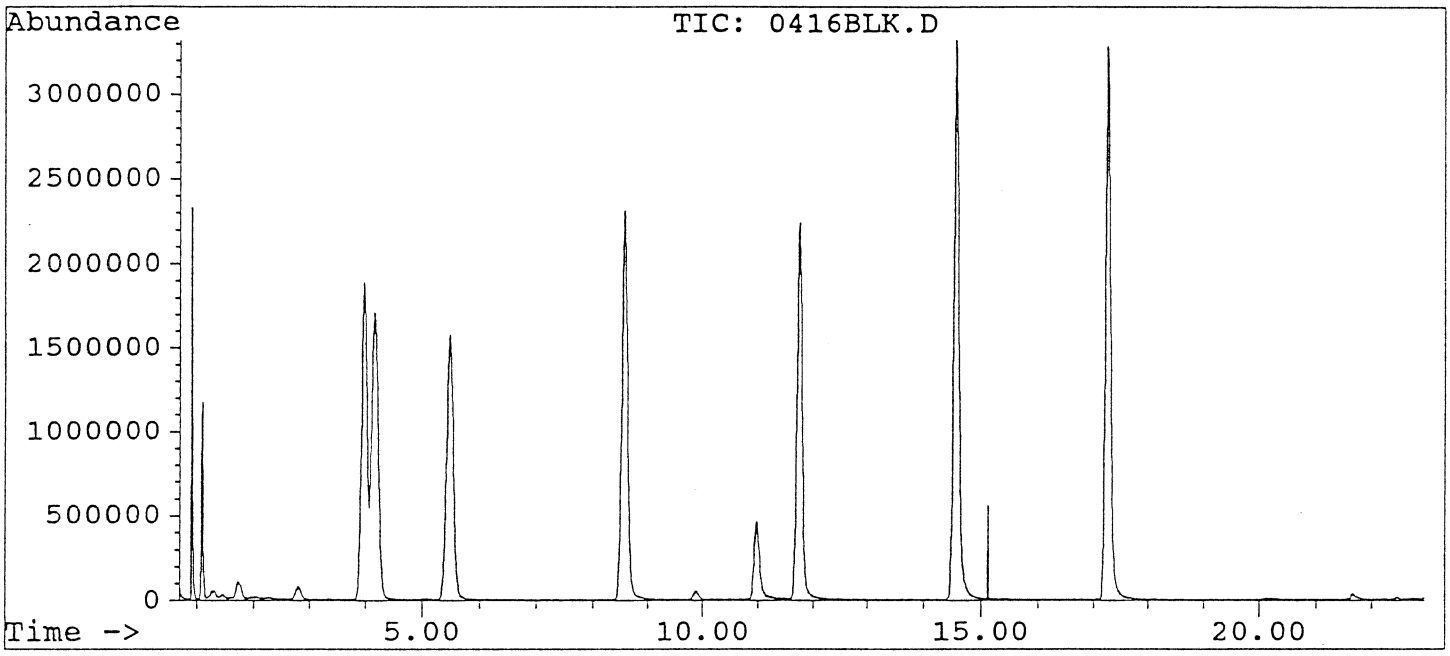
ISTD SUMMARY REPORT: 40 ug/L

FILE: C:\DATA\041699\ 0416BLK.D

	Compound Name:	R.T.:	Area:	Avg Calib Area	Calculated Result	% Rec	% Area
29	Pentafluorobenzene	4.16	4848597	4378455	40.00	100%	111%
33	1,4-Difluorobenzene	5.49	5607925	5226700	40.00	100%	107%
52	Chlorobenzene-d5	11.74	4671448	4483994	40.00	100%	104%

a Appendix IX extra compounds
** Compounds NOT Calibrated

File: C:\DATA\041699\0416BLK.D
Operator: Ray Bische
Date Acquired: 16 Apr 99 1:11 pm
Method File: FULL_VOC.M
Sample Name: Blank
Misc Info: Daily Quantitation Blank
Vial Number : 3
Multiplier : 1



Number of compounds in database: 69

SPIKE AND DUPLICATE DATA

Environmental Service Group, Inc.

Total Characteristic Leaching Procedure for
Volatile Organics via PATGC/MS

Data File: (Spike)	DATA:\033099\1001010.D
Operator:	Ray Bische
Date Acquired:	30-Mar-99 10:29 PM
Method File:	TCLP
Sample Name:	99003809-01A [redacted]
Miscellaneous Information:	NSVCLP solid, Sp-Dp, dil = 5.00
Bottle Number:	10
Total Number of Compounds Screened:	16
Dilution:	5.000
Results:	

Spike: 25

chck:	Num	Compound Name	Spike Amt	Sample	Matrix Spike	% Rec
	1	Vinyl Chloride	125	0.00	119.01	95%
	2	1,1-Dichloroethene	125	0.00	124.81	100%
	3	2-Butanone (MEK)	125	204.00	417.93	171%
	5	Chloroform	125	0.00	130.86	105%
	7	Carbon Tetrachloride	125	0.00	114.66	92%
	8	Benzene	125	0.00	127.66	102%
	9	1,2-Dichlorethane	125	0.00	139.42	112%
	11	Trichlorothene	125	0.00	126.09	101%
	13	Tetrachloroethene	125	0.00	123.04	98%
	15	Chlorobenzene	125	0.00	119.58	96%

Data File: (Spike-Duplicate)	DATA:\033099\1101011.D
Operator:	Ray Bische
Date Acquired:	30-Mar-99 11:12 PM
Method File:	TCLP
Sample Name:	99003809-01A [redacted]
Miscellaneous Information:	NSVCLP solid, Sp-Dp, dil = 5.00
Bottle Number:	11
Total Number of Compounds Screened:	16
Dilution:	5.000
Results:	

Spike: 25

chck:	Num	Compound Name	Spike Amt	Sample	Matrix Spike	% Rec	% Rec RPD
	1	Vinyl Chloride	125	0.00	121.39	97%	-2%
	2	1,1-Dichloroethene	125	0.00	119.97	96%	4%
	3	2-Butanone (MEK)	125	204.00	391.50	150%	13%
	5	Chloroform	125	0.00	134.45	108%	-3%
	7	Carbon Tetrachloride	125	0.00	118.70	95%	-3%
	8	Benzene	125	0.00	130.29	104%	-2%
	9	1,2-Dichlorethane	125	0.00	137.02	110%	2%
	11	Trichlorothene	125	0.00	124.96	100%	1%
	13	Tetrachloroethene	125	0.00	121.92	98%	1%
	15	Chlorobenzene	125	0.00	120.21	96%	-1%

SAMPLE CHROMATOGRAMS

OK
TCLP
Benzene
ONLY

Environmental Service Group, Inc.

Purgeable Volatile Organics Summary Report

Data File:	C:\DATA\041699\ 0416B.D
Operator:	Ray Bische
Date Acquired:	16 Apr 99 3:11 pm
Method File:	FULL_VOC.M
Sample Name:	9904480-01A Liquid Waste
Miscellaneous Information:	BENCLP sludge, dil = 5.00
Bottle Number:	3
Total Number of Compounds Screened:	69

Results:

	Nu	Compound Name	R.T.	Area	Amount	Units	Type:	ND	BQL	QL
	1	Dichlorodifluoromethane	0.00	0	0.00	ug/L		*		
	2	Chloromethane	0.96	16104	2.87	ug/L		*		
	3	Vinyl chloride	1.39	1282	0.18	ug/L		*		
	4	Bromomethane	1.15	7766	1.05	ug/L		*		
	5	Chloroethane	1.32	996	0.30	ug/L		*		
	6	Trichlorofluoromethane	1.67	41408	2.61	ug/L		*		
	7	Ethyl ether	1.61	33408	6.91	ug/L			*	
	8	Acrolein	1.55	3867	5.15	ug/L		*		
	9	1,1-Dichloroethene	1.66	7397	0.66	ug/L		*		
	10	1,1,2-Trichloro-1,2,2-trifluoroethane	1.67	41408	2.70	ug/L		*		
	11	Iodomethane	1.72	5242	0.36	ug/L		*		
	12	Carbon disulfide	1.74	10833	0.58	ug/L		*		
	13	Acetone	1.84	276877	167.53	ug/L			*	*
a	14	Allyl Chloride	2.05	26823	0.00	ug/L		*		
	15	Methylene chloride	2.03	35225	3.72	ug/L		*		
	16	trans-1,2-Dichloroethene	2.25	3657	0.37	ug/L		*		
	17	Acrylonitrile	0.00	0	0.00	ug/L		*		
	18	Methyl-tert-butyl ether	2.34	109517	5.72	ug/L			*	
	19	1,1-Dichloroethane	2.63	3628	0.23	ug/L		*		
a	20	Chloroprene	0.00	0	0.00	ug/L		*		
	21	Vinyl acetate	2.84	86703	4.67	ug/L		*		
	22	cis-1,2-Dichloroethene	3.30	3280	0.27	ug/L		*		
	23	2-Butanone	3.42	107298	145.28	ug/L			*	*
	24	Ethyl acetate	3.50	895	1.01	ug/L		*		
a	25	Methacrylonitrile	3.45	3747	0.00	ug/L		*		
	26	Chloroform	3.77	70232	3.58	ug/L		*		
	27	1,1,1-Trichloroethane	3.91	2705	0.17	ug/L		*		
	28	Dibromofluoromethane	3.99	4117623	49.73	ug/L	SURR	-	-	-
	29	Pentafluorobenzene	4.18	4863477	40.00	ug/L	ISTD	-	-	-
	30	Carbon Tetrachloride	4.20	26051	1.64	ug/L		*		
	31	Benzene	4.53	1782568	80.07	ug/L			*	*
	32	1,2-Dichloroethane	4.62	47435	4.05	ug/L		*		
	33	1,4-Difluorobenzene	5.49	5318794	40.00	ug/L	ISTD	-	-	-
	34	Trichloroethene	5.96	2240	0.22	ug/L		*		
	35	1,2-Dichloropropane	0.00	0	0.00	ug/L		*		
	36	Dibromomethane	0.00	0	0.00	ug/L		*		
a	37	Methyl methacrylate	7.02	6121	0.00	ug/L		*		
	38	Bromodichloromethane	0.00	0	0.00	ug/L		*		
	39	2-Nitropropane	7.45	80119	28.03	ug/L			*	*
	40	2-Chloroethyl vinyl ether	0.00	0	0.00	ug/L		*		
	41	cis-1,3-Dichloropropene	0.00	0	0.00	ug/L		*		
	42	4-Methyl-2-Pentanone	8.71	258400	32.87	ug/L			*	*
	43	Toluene-d8	8.59	5916959	48.68	ug/L	SURR	-	-	-

44	Toluene	8.73	9880396	410.90	ug/L			*	*
45	trans-1,3-Dichloropropene	0.00	0	0.00	ug/L		*		
46	1,1,2-Trichloroethane	9.52	63749	7.44	ug/L			*	
47	Ethyl methacrylate	9.91	4175	0.37	ug/L		*		
48	Tetrachloroethene	9.92	69305	6.15	ug/L			*	
49	2-Hexanone	10.45	85791	17.33	ug/L			*	
50	Dibromochloromethane	0.00	0	0.00	ug/L		*		
a 51	1,2-Dibromoethane	0.00	0	0.00	ug/L		*		
52	Chlorobenzene-d5	11.76	4602360	40.00	ug/L	ISTD	-	-	-
53	Chlorobenzene	11.79	11188	0.57	ug/L		*		
a 54	1,1,1,2-Tetrachloroethane	0.00	0	0.00	ug/L		*		
55	Ethylbenzene	12.21	4537357	143.36	ug/L			*	*
56	p,m-Xylenes	12.51	5179542	494.92	ug/L			*	*
57	o-Xylene	13.38	2837091	272.19	ug/L			*	*
58	Styrene	13.38	142652	7.88	ug/L			*	
59	Bromoform	0.00	0	0.00	ug/L		*		
60	4-Bromofluorobenzene	14.57	4680349	49.11	ug/L	SURR	-	-	-
61	1,2,3-Trichloropropane	0.00	0	0.00	ug/L		*		
62	1,1,2,2-Tetrachloroethane	15.40	24338	1.62	ug/L		*		
a 63	trans-1,4-dichloro-2-Butene	17.00	11709	0.00	ug/L		*		
a 64	Pentachloroethane	16.60	212135	0.00	ug/L		*		
65	1,3-Dichlorobenzene	17.06	9026	0.49	ug/L		*		
66	1,4-Dichlorobenzene	17.31	6519	0.37	ug/L		*		
67	1,2-Dichlorobenzene	18.11	10140	0.60	ug/L		*		
a 68	1,2-Dibromo-3-chloropropane	20.75	7426	0.00	ug/L		*		
a 69	1,2,4-Trichlorobenzene	21.86	12685	0.00	ug/L		*		

SURR SUMMARY REPORT: 50 ug/L

FILE: C:\DATA\041699\ 0416B.D

	Compound Name:	Area:	Avg Calib Area	Calculated Result	% Rec	% Area				
28	Dibromofluoromethane	4117623	3777087	49.73	99%	109%	ok	80%	-	112%
43	Toluene-d8	5916959	6010945	48.68	97%	98%	ok	81%	-	117%
60	4-Bromofluorobenzene	4680349	4661801	49.11	98%	100%	ok	74%	-	121%

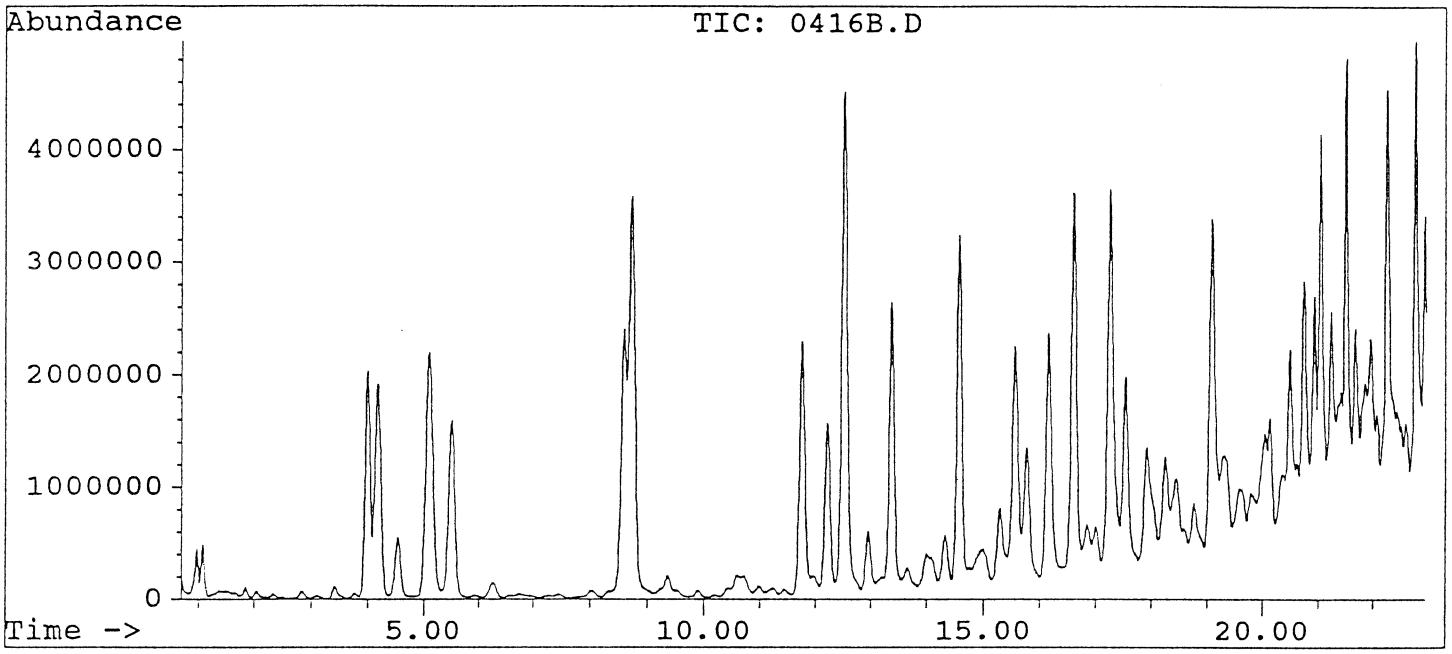
ISTD SUMMARY REPORT: 40 ug/L

FILE: C:\DATA\041699\ 0416B.D

	Compound Name:	R.T.:	Area:	Avg Calib Area	Calculated Result	% Rec	% Area
29	Pentafluorobenzene	4.18	4863477	4378455	40.00	100%	111%
33	1,4-Difluorobenzene	5.49	5318794	5226700	40.00	100%	102%
52	Chlorobenzene-d5	11.76	4602360	4483994	40.00	100%	103%

a Appendix IX extra compounds
** Compounds NOT Calibrated

File: C:\DATA\041699\0416B.D
Operator: Ray Bische
Date Acquired: 16 Apr 99 3:11 pm
Method File: FULL_VOC.M
Sample Name: 9904480-01A Liquid Waste
Misc Info: BENCLP sludge, dil=5.00
Vial Number : 3
Multiplier : 1



Number of compounds in database: 69

ESG

TCLP EXTRACTION DATA
per SW-846 1311

Date & Time IN: 04/15/99 1:45 pm / 3:00
Date & Time OUT: 04/16/99 8:15 am
Extraction for: ~~Metals~~ & SVOA / ~~VOA~~

Sample Wt: ~~100g~~ / 10g / _____ g
Ext.Fld Vol: ~~2000 mL~~ / 200 mL / _____ mL
Temp: 25° C

SAMPLE No#	% SOLIDS	INITAL pH	FINAL pH	Extract. fluid # and it's pH	pH after Extraction
9904421-01A	100%	9.41	1.83	#1 4.97	
9904421-02A	100%	5.51	1.82	↓	
9904440-01A	100%	8.46	1.83	↓	
~~TTOH~~	~~100%~~				
9904486-01A	100%	—	—	—	—

3 ml pm VOA

COMMENTS: fluid mod 4/15/99 JLM

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Ms. Debra Chelf
ARVIN INDUSTRIES
1531 13th Street
Columbus, IN 47201

10/23/1998

Job No.: 98.07140

Date Received: 10/14/1998
Job Description: WEEKLY OIL AND GREASE (FRANKLIN)

Sample Number / Sample I.D. Parameters	Result	Flag	Sample Date/ Units	Analyst & Date Analyzed	Method	Reporting Limit
221228 AF-129(1)			10/14/1998			
Oil & Grease, Hydrocarbon	310.0		mg/L	cls / 10/19/1998	EPA-1664	<5.
221229 AF-130(2)			10/14/1998			
Oil & Grease	1800		mg/L	lma / 10/22/1998	EPA 1664	<5.

Air Compressor Condensate discharging to outfall #1 (Franklin IDEM #1, which is Franklin 1, 2, 3 combined) started this discharge in early Nov. 1998.

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Ms. Debra Chelf
ARVIN INDUSTRIES
1531 13th Street
Columbus, IN 47201

10/23/1998

NET Job Number: 98.07140

Enclosed are the Analytical Results for the following samples submitted to NET, Inc. Indianapolis Division for analysis:

Project Description: WEEKLY OIL AND GREASE (FRANKLIN)

Sample Number	Sample Description	Date Taken	Date Received
221228	AF-129(1)	10/14/1998	10/14/1998
221229	AF-130(2)	10/14/1998	10/14/1998

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Lou Barnes

Project Representative

NET NATIONAL ENVIRONMENTAL TESTING, INC.®

CHAIN OF CUSTODY RECORD

COMPANY ARVIN Exhaust
ADDRESS 1531 13th Columbus, IN 47201
PHONE 812-379-3545 FAX 812-379-3641
PROJECT NAME/LOCATION Franklin Plant
PROJECT NUMBER —
PROJECT MANAGER —

REPORT TO: DAJ Boucher
INVOICE TO: DAJ Boucher
P.O. NO. 312488
NET QUOTE NO. —

SAMPLED BY DAJ Boucher (PRINT NAME) SIGNATURE
(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: Hydrocarbon oil & Grease	Total oil & Grease
10/14	8:00	AF-~~128~~ 129							1 G		X	X
10/14	8:00	AF-130							1 G			X

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ____ No ____

Is this work being conducted for regulatory enforcement action? Yes ____ No ____

Which regulations apply: RCRA ____ NPDES Wastewater ____ UST ____ Drinking Water ____ Other ____ None ____

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO
FIELD FILTERED? YES (NO)
~~COC SEALS PRESENT AND INTACT? YES / NO~~ N/A
~~VOLATILES FREE OF HEADSPACE? YES / NO~~

TEMPERATURE UPON RECEIPT: 4.1°C
Bottles supplied by NET? (YES) NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ____
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS DAJ Boucher DATE 10-14-98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
DAJ Boucher	10-14-98	9:00A	ME Milliken 10/14/98 1250	ME Milliken	10/14/98	1820	

METHOD OF SHIPMENT: NET Pick-up
REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

Lubes/Coolants Sampling Results

safety-kleen.

SAFETY-KLEEN SAMPLE ANALYSIS REPORT
Water Services -- Discharge Systems Report

SAMPLE DESCRIPTION:

PAGE 1

REPORT DATE: 08-27-98

S-K REPRESENTATIVE: RICK WEAVER
BRANCH #: 407602

CONTROL #: 1805488-9
SURVEY #: WS001464D
LAB #: 9805488

CUSTOMER #:
ORDINANCE REGION:

Generator: **ARVIN**
1001 HURRICANE ST
FRANKLIN, IN 46131
(317)346-2851

Attention: DAN BOUCHER

The enclosed Discharge Monitoring Analysis performed on the sample in question has identified certain parameter(s) which **DID EXCEED** permit/local ordinance limits on the dates in which these respective tests were conducted. Those parameter(s) are as follows: **Oil & Grease,Total Cyanide.**

The enclosed analysis report identifies concentration levels of specific pollutants in the sample only for the dates stated and according to the methods listed. Local ordinance limits may have been used if permit limits were not available. Safety-Kleen makes no representations, and hereby disclaims all representations, expressed or implied, other than as expressly stated in the attached analysis report for the dates listed. In addition, the analysis report does not absolve the generator from any liability that may arise in connection with the violation of any applicable regulatory requirements.

If you have any questions regarding the above analysis, please contact Customer Service at (773)825-7338.

Continued on next page

Safety-Kleen Corp. Technical Center

P.O. Box 92050
Elk Grove Village, IL 60009-2050
Fax: (773) 825-7853

12555 W. Old Higgins Rd.
Elk Grove Village, IL 60007
Telephone: (773) 825-7338

Analyte	Date Analyzed	EPA Method	Ordinance Limit	Result
1,1,1,2-Tetrachloroethane	08-05-98	8240		<1.00
1,1,1-Trichloroethane	08-05-98	8240		<1.00
1,1,2,2-Tetrachloroethane	08-05-98	8240		<1.00
1,1,2-Trichloroethane	08-05-98	8240		<1.00
1,1-Dichloroethane	08-05-98	8240		<1.00
1,2,3-Trichlorobenzene	08-05-98	8240		<1.00
1,2,3-Trichloropropane	08-05-98	8240		<1.00
1,2,3-Trimethylbenzene	08-05-98	8240		<1.00
1,2,4-Trichlorobenzene	08-05-98	8240		<1.00
1,2,4-Trimethylbenzene	08-05-98	8240		<1.00
1,2-Dibromo-3-Chloropropa	08-05-98	8240		<1.00
1,2-Dibromoethane	08-05-98	8240		<1.00
1,2-Dichlorobenzene	08-05-98	8240		<1.00
1,2-Dichloroethene(total)	08-05-98	8240		<1.00
1,2-Dichloropropane	08-05-98	8240		<1.00
1,3,5-Trimethylbenzene	08-05-98	8240		<1.00
1,3-Dichlorobenzene	08-05-98	8240		<1.00
1,3-Dichloropropane	08-05-98	8240		<1.00
1,4-Dichloro,2-Butene	08-05-98	8240		<1.00
1-Chlorobutane	08-05-98	8240		<1.00
1-Nitropropane	08-05-98	8240		<10.00
2,2-Dichloropropane	08-05-98	8240		<1.00
2-Chloroethylvinyl Ether	08-05-98	8240		<1.00
2-Chlorotoluene	08-05-98	8240		<1.00
2-Hexanone	08-05-98	8240		<2.00
2-Nitropropane	08-05-98	8240		<10.00
4-Chlorotoluene	08-05-98	8240		<1.00
4-Isopropyltoluene	08-05-98	8240		<1.00
4-Methyl-2-Pentanone	08-05-98	8240		<1.00
Acetone	08-05-98	8240		37.7
Acetonitrile	08-05-98	8240		<10.00
Acrylonitrile	08-05-98	8240		<1.00
Allyl Chloride	08-05-98	8240		<1.00
Benzyl Chloride	08-05-98	8240		<1.00
Bromobenzene	08-05-98	8240		<1.00
Bromochloromethane	08-05-98	8240		<2.00
Bromodichloromethane	08-05-98	8240		<1.00
Bromoform	08-05-98	8240		<1.00
Bromomethane	08-05-98	8240		<1.00
Carbon Disulfide	08-05-98	8240		<1.00
Chloroethane	08-05-98	8240		<1.00
Chloromethane	08-05-98	8240		<1.00
Cyclohexanone	08-05-98	8240		<8.00

Continued on next page

Dibromochloromethane	08-05-98	8240	<1.00
Dibromomethane	08-05-98	8240	<1.00
Dichlorodifluoromethane	08-05-98	8240	<1.00
Diethyl ether	08-05-98	8240	<1.00
Ethyl Methacrylate	08-05-98	8240	<1.00
Ethylbenzene	08-05-98	8240	<1.00
Hexane	08-05-98	8240	<1.00
Iodomethane	08-05-98	8240	<1.00
Isopropylbenzene	08-05-98	8240	<1.00
Methacrylonitrile	08-05-98	8240	<1.00
Methyl Methacrylate	08-05-98	8240	<1.00
Methyl-t-butyl ether	08-05-98	8240	<1.00
Methylene Chloride	08-05-98	8240	<1.00
Naphthalene	08-05-98	8240	<1.00
O-Xylene	08-05-98	8240	<1.00
Pentachloroethane	08-05-98	8240	<1.00
Styrene	08-05-98	8240	<1.00
Tetrahydrofuran	08-05-98	8240	<1.00
Toluene	08-05-98	8240	<1.00
Trichlorofluoromethane	08-05-98	8240	<1.00
Vinyl Acetate	08-05-98	8240	<2.00
Xylenes(total)	08-05-98	8240	<1.00
cis-1,2-Dichloroethene	08-05-98	8240	<1.00
cis-1,3-Dichloropropene	08-05-98	8240	<1.00
iso-Butanol	08-05-98	8240	<200
m+p-Xylenes	08-05-98	8240	<1.00
n-Butylbenzene	08-05-98	8240	<1.00
n-Propylbenzene	08-05-98	8240	<1.00
sec-Butylbenzene	08-05-98	8240	<1.00
tert-Butylbenzene	08-05-98	8240	<1.00
trans-1,2-Dichloroethene	08-05-98	8240	<1.00
trans-1,3-Dichloropropene	08-05-98	8240	<1.00
Benzene	08-05-98	8240	<1.00
Carbon Tetrachloride	08-05-98	8240	<1.00
Chlorobenzene	08-05-98	8240	<1.00
Chloroform	08-05-98	8240	2.00
1,4-Dichlorobenzene	08-05-98	8240	<1.00
1,2-Dichloroethane	08-05-98	8240	<1.00
1,1-Dichloroethylene	08-05-98	8240	<1.00
Hexachlorobutadiene	08-05-98	8240	<1.00
Hexachloroethane	08-05-98	8240	<1.00
Methyl Ethyl Ketone	08-05-98	8240	<2.00
Tetrachloroethylene	08-05-98	8240	<1.00
Trichloroethylene	08-05-98	8240	<1.00
Vinyl Chloride	08-05-98	8240	<1.00

Continued on next page

CONTAMINATED MATERIAL FEED

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm	Units
Extractable Organics	07-29-98	413.1		27900	ppm
Total Suspended Solids	07-28-98	160.2		39200	ppm
pH	07-28-98	9040		7.5	

METALS IN DISCHARGE MONITORING

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm
Copper	07-29-98	6010	0.743	0.088
Nickel	07-29-98	6010	6.5103	<0.060
Zinc	07-29-98	6010	29.4332	0.510
Arsenic	07-29-98	6010	2.1435	<0.100
Cadmium	07-29-98	6010	0.323	<0.010
Chromium	07-29-98	6010	7.302	0.013
Lead	07-29-98	6010	0.5935	<0.080

MISCELLANEOUS DISCHARGE MONITORING

Analyte	Date Analyzed	EPA Method	Ordinance Limit mg/L	Result	Units
Ammonia-Nitrates	08-04-98	350.2		48	mg/L
Biological Oxygen Demand	08-04-98	405.1		8940	mg/L
Chemical Oxygen Demand	08-06-98	410.4		8550	ppm
Oil & Grease	**07-29-98**	**413.1**	100	**344**	**ppm**
Total Chloride	08-05-98	325.3		0.6	mg/L
Total Dissolved Solids	07-28-98	160.1		19813	ppm
Total Suspended Solids	07-28-98	160.2		2660	ppm
Total Cyanide	**07-29-98**	**335.2**	0.1962	**1.17**	**ppm**
Total Sulfide	08-05-98	376.1		300	ppm

MISCELLANEOUS

Test	Date Analyzed	EPA Method	Ordinance Limit ppm	Result	Units
Phosphate, Total	08-05-98	365.2		<1.4	ppm
Total PCB	08-05-98	NONE		<1.0	

Continued on next page

SEMI-VOLATILES

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm	Units
1,2,4-Trichlorobenzene	08-05-98	8270		<1.00	mg/L
1,2-Dichlorobenzene	08-05-98	8270		<1.00	mg/L
1,3-Dichlorobenzene	08-05-98	8270		<1.00	mg/L
2,4-Dichlorophenol	08-05-98	8270		<1.00	mg/L
2,4-Dinitrophenol	08-05-98	8270		<5.00	mg/L
2,6-Dinitrotoluene	08-05-98	8270		<1.00	mg/L
2-Chloronaphthalene	08-05-98	8270		<1.00	mg/L
2-Chlorophenol	08-05-98	8270		<1.00	mg/L
2-Methylnaphthalene	08-05-98	8270		<1.00	mg/L
2-Nitroaniline	08-05-98	8270		<1.00	mg/L
2-Nitrophenol	08-05-98	8270		<1.00	mg/L
3,3'-Dichlorobenzidine	08-05-98	8270		<1.00	mg/L
3-Nitroaniline	08-05-98	8270		<1.00	mg/L
4,6-Dinitro-2-methylphenol	08-05-98	8270		<5.00	mg/L
4-Bromophenyl-phenylether	08-05-98	8270		<1.00	mg/L
4-Chloro-3-Methylphenol	08-05-98	8270		<1.00	mg/L
4-Chloroaniline	08-05-98	8270		<1.00	mg/L
4-Chlorophenyl-phenylether	08-05-98	8270		<1.00	mg/L
4-Nitroaniline	08-05-98	8270		<1.00	mg/L
4-Nitrophenol	08-05-98	8270		<5.00	mg/L
Acenaphthene	08-05-98	8270		<1.00	mg/L
Acenaphthylene	08-05-98	8270		<1.00	mg/L
Aniline	08-05-98	8270		<1.00	mg/L
Anthracene	08-05-98	8270		<1.00	mg/L
Benzo(a)Anthracene	08-05-98	8270		<1.00	mg/L
Benzo(a)pyrene	08-05-98	8270		<1.00	mg/L
Benzo(b)fluoranthene	08-05-98	8270		<1.00	mg/L
Benzo(g,h,i)perylene	08-05-98	8270		<1.00	mg/L
Benzo(k)fluoranthene	08-05-98	8270		<1.00	mg/L
Benzyl Alcohol	08-05-98	8270		<1.00	mg/L
Bis(2-chloroethoxy)methane	08-05-98	8270		<1.00	mg/L
Bis(2-chloroethyl)ether	08-05-98	8270		<1.00	mg/L
Butylbenzylphthalate	08-05-98	8270		<1.00	mg/L
Chrysene	08-05-98	8270		<1.00	mg/L
Di-n-Butylphthalate	08-05-98	8270		<1.00	mg/L
Di-n-octylphthalate	08-05-98	8270		<1.00	mg/L
Dibenzo(a,h)anthracene	08-05-98	8270		<1.00	mg/L
Dibenzofuran	08-05-98	8270		<1.00	mg/L
Diethylphthalate	08-05-98	8270		<1.00	mg/L
Dimethylphthalate	08-05-98	8270		<1.00	mg/L
Fluoranthene	08-05-98	8270		<1.00	mg/L
Fluorene	08-05-98	8270		<1.00	mg/L
Hexachlorocyclopentadiene	08-05-98	8270		<1.00	mg/L
Indeno(1,2,3-cd)pyrene	08-05-98	8270		<1.00	mg/L
Isophorone	08-05-98	8270		<1.00	mg/L

Continued on next page

N-Nitrosodinpropylamine	08-05-98	8270	<1.00 mg/L
N-Nitrosodiphenylamine	08-05-98	8270	<1.00 mg/L
Naphthalene	08-05-98	8270	<1.00 mg/L
Phenanthrene	08-05-98	8270	<1.00 mg/L
Phenol	08-05-98	8270	<1.00 mg/L
Pyrene	08-05-98	8270	<1.00 mg/L
bis(2-Chloroisopropyl)ether	08-05-98	8270	<1.80 mg/L
bis(2-ethylhexyl)Phthalate	08-05-98	8270	<1.00 mg/L
2-Methylphenol	08-05-98	8270	<1.00 mg/L
3+4-Methylphenol	08-05-98	8270	<1.00 mg/L
1,4-Dichlorobenzene	08-05-98	8270	<1.00 mg/L
2,4-Dinitrotoluene	08-05-98	8270	<1.00 mg/L
Hexachlorobenzene	08-05-98	8270	<1.00 mg/L
Hexachlorobutadiene	08-05-98	8270	<1.00 mg/L
Hexachloroethane	08-05-98	8270	<1.00 mg/L
Nitrobenzene	08-05-98	8270	<1.00 mg/L
Pentachlorophenol	08-05-98	8270	<5.00 mg/L
Pyridine	08-05-98	8270	<1.00 mg/L
2,4,5-Trichlorophenol	08-05-98	8270	<1.00 mg/L
2,4,6-Trichlorophenol	08-05-98	8270	<1.00 mg/L

Continued on next page

Sample Description:

SAMPLE HANDLING DATES

Date Sampled:	07-23-98
Date Received:	07-27-98

LEACHING/EXTRACTION DATES

	Method	Date
BNA Extraction:	3510	07-28-98

The analysis contained herein are performed to provide Safety-Kleen Corp. and its customers a means of determining compliant waste handling practices that are consistent with applicable permits and processing capability.

End of Document

SAFETY-KLEEN SAMPLE ANALYSIS REPORT
Water Services - Recycle Systems Report

SAMPLE DESCRIPTION: COOLANT	**PAGE** 1
	REPORT DATE: 8/27/98
S-K REPRESENTATIVE: RICK WEAVER	
BRANCH #: 407602	**CONTROL #:** 1805491-5
	SURVEY #: WS001464
CUSTOMER #:	**LAB #:** 9805491

Generator: **ARVIN**
101 HURRICANE ST.
FRANKLIN, IN 46131
(317) 346-2851

Attention: DAN BOUCHER

The enclosed Safety-Kleen report contains the analyses required to calculate the size of the system and service interval required.

This calculation is only an estimate based on the sample obtained. It may be necessary to vary the system size or service interval after the unit has been in place for awhile.

If you have any question regarding the above analysis, please contact Customer Service at (773)825-7338

Continued on next page

Safety-Kleen Corp. Technical Center

P.O. Box 92050
Elk Grove Village, IL 60009-2050
Fax: (773) 825-7853

12555 W. Old Higgins Road
Elk Grove Village, IL 60007
Telephone: (773) 825-7338

CONTAMINATED MATERIAL FEED

Analyte	Date Analyzed	EPA SW846 Method	Results mg/L	Units
Oil & Grease	7/29/98	413.1	27900	ppm
Total Suspended Solids	7/28/98	160.2	39200	ppm
pH	7/28/98	9040	7.5	
Flow Rate	7/28/98		60	mL/min

CONTAMINATED MATERIAL PERMEATE

Analyte	Date Analyzed	EPA SW846 Method	Results mg/L	Units
Oil & Grease	7/29/98	413.1	344	ppm
Total Suspended Solids	7/28/98	160.2	2660	ppm

SYSTEM INFORMATION

Cleaner Manufacturer	N/A
Cleaner	N/A
Percent Organics Removed	99%
Percent Total Suspended Solids Removal	93%
Dump Frequency	5 days
Days Since Last Cleanout	3 days
Operating Temperature	72 F
Tank Size	110 gal
Contaminated Flow As Percent of Water	50%

** Less than 92% may not be recyclable due to low Total Organic Carbon recovery.
*** Less than 70% may result in lower than expected output from unit.

Continued on next page

SYSTEM SIZING INFORMATION

Estimated Service Interval:

Based on Combined Oil & Solids Results: 1-2 week(s)

Estimated System Size (number of Stacks):

Batch Process; single pass through Aqueous Processing Uni 1 stack (s)
Continual Recycling Process: 2

Sample Description:

COOLANT

SAMPLE HANDLING DATES

Date Sampled: 7/23/98
Date Received: 7/27/98

The analysis contained herein are performed to provide Safety-Kleen Corp. and its customers a means of determining compliant waste handling practices that are consistent with applicable permits and processing capability.

Mop Water Sampling Results

safety-kleen.

SAFETY-KLEEN SAMPLE ANALYSIS REPORT
Water Services -- Discharge Systems Report

SAMPLE DESCRIPTION:

PAGE 1

S-K REPRESENTATIVE: RICK WEAVER
BRANCH #: 407602

REPORT DATE: 08-27-98

CONTROL #: 1805489-2
SURVEY #: WS001465D
LAB #: 9805489

CUSTOMER #:
ORDINANCE REGION:

Generator: **ARVIN**
1001 HURRICANE ST
FRANKLIN, IN 46113
(317)346-2851

Attention: DAN BOUCHER

The enclosed Discharge Monitoring Analysis performed on the sample in question has identified certain parameter(s) which **DID EXCEED** permit/local ordinance limits on the dates in which these respective tests were conducted. Those parameter(s) are as follows: **Oil & Grease.**

The enclosed analysis report identifies concentration levels of specific pollutants in the sample only for the dates stated and according to the methods listed. Local ordinance limits may have been used if permit limits were not available. Safety-Kleen makes no representations, and hereby disclaims all representations, expressed or implied, other than as expressly stated in the attached analysis report for the dates listed. In addition, the analysis report does not absolve the generator from any liability that may arise in connection with the violation of any applicable regulatory requirements.

If you have any questions regarding the above analysis, please contact Customer Service at (773)825-7338.

Continued on next page

P.O. Box 92050
Elk Grove Village, IL 60009-2050
Fax: (773) 825-7853

Safety-Kleen Corp. Technical Center

12555 W. Old Higgins Rd.
Elk Grove Village, IL 60007
Telephone: (773) 825-7338

Control #: 1805489-2
Survey #: WS001465D

Analyte	Date Analyzed	EPA Method	Ordinance Limit	Result
1,1,1,2-Tetrachloroethane	08-04-98	8240		<0.050
1,1,1-Trichloroethane	08-04-98	8240		<0.050
1,1,2,2-Tetrachloroethane	08-04-98	8240		<0.050
1,1,2-Trichloroethane	08-04-98	8240		<0.050
1,1-Dichloroethane	08-04-98	8240		<0.050
1,2,3-Trichlorobenzene	08-04-98	8240		<0.050
1,2,3-Trichloropropane	08-04-98	8240		<0.050
1,2,3-Trimethylbenzene	08-04-98	8240		<0.050
1,2,4-Trichlorobenzene	08-04-98	8240		<0.050
1,2,4-Trimethylbenzene	08-04-98	8240		<0.050
1,2-Dibromo-3-Chloropropa	08-04-98	8240		<0.050
1,2-Dibromoethane	08-04-98	8240		<0.050
1,2-Dichlorobenzene	08-04-98	8240		<0.050
1,2-Dichloroethene(total)	08-04-98	8240		<0.050
1,2-Dichloropropane	08-04-98	8240		<0.050
1,3,5-Trimethylbenzene	08-04-98	8240		<0.050
1,3-Dichlorobenzene	08-04-98	8240		<0.050
1,3-Dichloropropane	08-04-98	8240		<0.050
1,4-Dichloro,2-Butene	08-04-98	8240		<0.050
1-Chlorobutane	08-04-98	8240		<0.050
1-Nitropropane	08-04-98	8240		<0.500
2,2-Dichloropropane	08-04-98	8240		<0.050
2-Chloroethylvinyl Ether	08-04-98	8240		<0.050
2-Chlorotoluene	08-04-98	8240		<0.050
2-Hexanone	08-04-98	8240		<0.100
2-Nitropropane	08-04-98	8240		<0.500
4-Chlorotoluene	08-04-98	8240		<0.050
4-Isopropyltoluene	08-04-98	8240		<0.050
4-Methyl-2-Pentanone	08-04-98	8240		<0.050
Acetone	08-04-98	8240		0.215
Acetonitrile	08-04-98	8240		<0.500
Acrylonitrile	08-04-98	8240		<0.050
Allyl Chloride	08-04-98	8240		<0.050
Benzyl Chloride	08-04-98	8240		<0.050
Bromobenzene	08-04-98	8240		<0.050
Bromochloromethane	08-04-98	8240		<0.100
Bromodichloromethane	08-04-98	8240		<0.050
Bromoform	08-04-98	8240		<0.050
Bromomethane	08-04-98	8240		<0.050
Carbon Disulfide	08-04-98	8240		<0.050
Chloroethane	08-04-98	8240		<0.050
Chloromethane	08-04-98	8240		<0.050
Cyclohexanone	08-04-98	8240		<0.400

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Control #: 1805489-2
Survey #: WS001465D

			ARVIN
Dibromochloromethane	08-04-98	8240	<0.050
Dibromomethane	08-04-98	8240	<0.050
Dichlorodifluoromethane	08-04-98	8240	<0.050
Diethyl ether	08-04-98	8240	<0.050
Ethyl Methacrylate	08-04-98	8240	<0.050
Ethylbenzene	08-04-98	8240	<0.050
Hexane	08-04-98	8240	<0.050
Iodomethane	08-04-98	8240	<0.050
Isopropylbenzene	08-04-98	8240	<0.050
Methacrylonitrile	08-04-98	8240	<0.050
Methyl Methacrylate	08-04-98	8240	<0.050
Methyl-t-butyl ether	08-04-98	8240	<0.050
Methylene Chloride	08-04-98	8240	<0.050
Naphthalene	08-04-98	8240	<0.050
O-Xylene	08-04-98	8240	<0.050
Pentachloroethane	08-04-98	8240	<0.050
Styrene	08-04-98	8240	<0.050
Tetrahydrofuran	08-04-98	8240	<0.050
Toluene	08-04-98	8240	<0.050
Trichlorofluoromethane	08-04-98	8240	<0.050
Vinyl Acetate	08-04-98	8240	<0.100
Xylenes(total)	08-04-98	8240	<0.050
cis-1,2-Dichloroethene	08-04-98	8240	<0.050
cis-1,3-Dichloropropene	08-04-98	8240	<0.050
iso-Butanol	08-04-98	8240	<10.00
m+p-Xylenes	08-04-98	8240	<0.050
n-Butylbenzene	08-04-98	8240	<0.050
n-Propylbenzene	08-04-98	8240	<0.050
sec-Butylbenzene	08-04-98	8240	<0.050
tert-Butylbenzene	08-04-98	8240	<0.050
trans-1,2-Dichloroethene	08-04-98	8240	<0.050
trans-1,3-Dichloropropene	08-04-98	8240	<0.050
Benzene	08-04-98	8240	<0.050
Carbon Tetrachloride	08-04-98	8240	<0.050
Chlorobenzene	08-04-98	8240	<0.050
Chloroform	08-04-98	8240	<0.050
1,4-Dichlorobenzene	08-04-98	8240	<0.050
1,2-Dichloroethane	08-04-98	8240	<0.050
1,1-Dichloroethylene	08-04-98	8240	<0.050
Hexachlorobutadiene	08-04-98	8240	<0.050
Hexachloroethane	08-04-98	8240	<0.050
Methyl Ethyl Ketone	08-04-98	8240	3.22
Tetrachloroethylene	08-04-98	8240	<0.050
Trichloroethylene	08-04-98	8240	<0.050
Vinyl Chloride	08-04-98	8240	<0.050

Continued on next page

Control #: 1805489-2
Survey #: WS001465D

CONTAMINATED MATERIAL FEED

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm	Units
Extractable Organics	07-29-98	413.1		1010	ppm
Total Suspended Solids	07-28-98	160.2		2810	ppm
pH	07-28-98	9040		6.6	

METALS IN DISCHARGE MONITORING

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm
Copper	07-29-98	6010	0.743	0.011
Nickel	07-29-98	6010	6.5103	<0.060
Zinc	07-29-98	6010	29.4332	0.066
Arsenic	07-29-98	6010	2.14	<0.100
Cadmium	07-29-98	6010	0.323	<0.010
Chromium	07-29-98	6010	7.3	<0.010
Lead	07-29-98	6010	0.5935	<0.080

MISCELLANEOUS DISCHARGE MONITORING

Analyte	Date Analyzed	EPA Method	Ordinance Limit mg/L	Result	Units
Ammonia-Nitrates	08-04-98	350.2		2.69	mg/L
Biological Oxygen Demand	08-05-98	405.1		4550	mg/L
Chemical Oxygen Demand	08-06-98	410.4		7610	ppm
Oil & Grease	07-29-98	413.1	100	454	ppm
Total Chloride	08-11-98	325.3		283	mg/L
Total Dissolved Solids	07-28-98	160.1		3429	ppm
Total Suspended Solids	07-28-98	160.2		373	ppm
Total Cyanide	07-29-98	335.2		<0.5	ppm
Total Sulfide	08-05-98	376.1		92.7	ppm

MISCELLANEOUS

Test	Date Analyzed	EPA Method	Ordinance Limit ppm	Result	Units
Phosphate, Total	08-11-98	365.2		<27.0	ppm
Total PCB	08-11-98	NONE		<1.0	

Continued on next page

Control #: 1805489-2
Survey #: WS001465D

SEMI-VOLATILES

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm	Units
1,2,4-Trichlorobenzene	08-06-98	8270		<1.00	mg/L
1,2-Dichlorobenzene	08-06-98	8270		<1.00	mg/L
1,3-Dichlorobenzene	08-06-98	8270		<1.00	mg/L
2,4-Dichlorophenol	08-06-98	8270		<1.00	mg/L
2,4-Dinitrophenol	08-06-98	8270		<5.00	mg/L
2,6-Dinitrotoluene	08-06-98	8270		<1.00	mg/L
2-Chloronaphthalene	08-06-98	8270		<1.00	mg/L
2-Chlorophenol	08-06-98	8270		<1.00	mg/L
2-Methylnaphthalene	08-06-98	8270		<1.00	mg/L
2-Nitroaniline	08-06-98	8270		<1.00	mg/L
2-Nitrophenol	08-06-98	8270		<1.00	mg/L
3,3'-Dichlorobenzidine	08-06-98	8270		<1.00	mg/L
3-Nitroaniline	08-06-98	8270		<1.00	mg/L
4,6-Dinitro-2-methylphenol	08-06-98	8270		<5.00	mg/L
4-Bromophenyl-phenylether	08-06-98	8270		<1.00	mg/L
4-Chloro-3-Methylphenol	08-06-98	8270		1.17	mg/L
4-Chloroaniline	08-06-98	8270		<1.00	mg/L
4-Chlorophenyl-phenylether	08-06-98	8270		<1.00	mg/L
4-Nitroaniline	08-06-98	8270		<1.00	mg/L
4-Nitrophenol	08-06-98	8270		<5.00	mg/L
Acenaphthene	08-06-98	8270		<1.00	mg/L
Acenaphthylene	08-06-98	8270		<1.00	mg/L
Aniline	08-06-98	8270		<1.00	mg/L
Anthracene	08-06-98	8270		<1.00	mg/L
Benzo(a)Anthracene	08-06-98	8270		<1.00	mg/L
Benzo(a)pyrene	08-06-98	8270		<1.00	mg/L
Benzo(b)fluoranthene	08-06-98	8270		<1.00	mg/L
Benzo(g,h,i)perylene	08-06-98	8270		<1.00	mg/L
Benzo(k)fluoranthene	08-06-98	8270		<1.00	mg/L
Benzyl Alcohol	08-06-98	8270		<1.00	mg/L
Bis(2-chloroethoxy)methane	08-06-98	8270		<1.00	mg/L
Bis(2-chloroethyl)ether	08-06-98	8270		<1.00	mg/L
Butylbenzylphthalate	08-06-98	8270		<1.00	mg/L
Chrysene	08-06-98	8270		<1.00	mg/L
Di-n-Butylphthalate	08-06-98	8270		<1.00	mg/L
Di-n-octylphthalate	08-06-98	8270		<1.00	mg/L
Dibenzo(a,h)anthracene	08-06-98	8270		<1.00	mg/L
Dibenzofuran	08-06-98	8270		<1.00	mg/L
Diethylphthalate	08-06-98	8270		<1.00	mg/L
Dimethylphthalate	08-06-98	8270		<1.00	mg/L
Fluoranthene	08-06-98	8270		<1.00	mg/L
Fluorene	08-06-98	8270		<1.00	mg/L
Hexachlorocyclopentadiene	08-06-98	8270		<1.00	mg/L
Indeno(1,2,3-cd)pyrene	08-06-98	8270		<1.00	mg/L
Isophorone	08-06-98	8270		<1.00	mg/L

Continued on next page

Control #: 1805489-2
Survey #: WS001465D

ARVIN

N-Nitrosodinpropylamine	08-06-98	8270	<1.00 mg/L
N-Nitrosodiphenylamine	08-06-98	8270	<1.00 mg/L
Naphthalene	08-06-98	8270	<1.00 mg/L
Phenanthrene	08-06-98	8270	<1.00 mg/L
Phenol	08-06-98	8270	<1.00 mg/L
Pyrene	08-06-98	8270	<1.00 mg/L
bis(2-Chloroisopropyl)ether	08-06-98	8270	<1.80 mg/L
bis(2-ethylhexyl)Phthalate	08-06-98	8270	1.15 mg/L
2-Methylphenol	08-06-98	8270	<1.00 mg/L
3+4-Methylphenol	08-06-98	8270	<1.00 mg/L
1,4-Dichlorobenzene	08-06-98	8270	<1.00 mg/L
2,4-Dinitrotoluene	08-06-98	8270	<1.00 mg/L
Hexachlorobenzene	08-06-98	8270	<1.00 mg/L
Hexachlorobutadiene	08-06-98	8270	<1.00 mg/L
Hexachloroethane	08-06-98	8270	<1.00 mg/L
Nitrobenzene	08-06-98	8270	<1.00 mg/L
Pentachlorophenol	08-06-98	8270	<5.00 mg/L
Pyridine	08-06-98	8270	<1.00 mg/L
2,4,5-Trichlorophenol	08-06-98	8270	<1.00 mg/L
2,4,6-Trichlorophenol	08-06-98	8270	<1.00 mg/L

Continued on next page

Control #: 1805489-2
Survey #: WS001465D

Sample Description:

SAMPLE HANDLING DATES

Date Sampled:	07-23-98
Date Received:	07-27-98

LEACHING/EXTRACTION DATES

	Method	Date
BNA Extraction:	3510	07-28-98

The analysis contained herein are performed to provide Safety-Kleen Corp. and its customers a means of determining compliant waste handling practices that are consistent with applicable permits and processing capability.

End of Document

SAFETY-KLEEN SAMPLE ANALYSIS REPORT
Water Services - Recycle Systems Report

SAMPLE DESCRIPTION:		**PAGE**	1
MOP WATER		**REPORT DATE:**	8/27/98
S-K REPRESENTATIVE: RICK WEAVER			
BRANCH #: 407602		**CONTROL #:**	1805492-7
		SURVEY #:	WS001465
CUSTOMER #:		**LAB #:**	9805492

Generator: **ARVIN**
101 HURRICANE ST.
FRANKLIN, IN 46113
(317) 346-2851

Attention: DAN BOUCHER

The enclosed Safety-Kleen report contains the analyses required to calculate the size of the system and service interval required.

This calculation is only an estimate based on the sample obtained. It may be necessary to vary the system size or service interval after the unit has been in place for awhile.

If you have any question regarding the above analysis, please contact Customer Service at (773)825-7338

Continued on next page

Safety-Kleen Corp. Technical Center

P.O. Box 92050
Elk Grove Village, IL 60009-2050
Fax: (773) 825-7853

12555 W. Old Higgins Road
Elk Grove Village, IL 60007
Telephone: (773) 825-7338

CONTAMINATED MATERIAL FEED

Analyte	Date Analyzed	EPA SW846 Method	Results mg/L	Units
Oil & Grease	7/29/98	413.1	1010	ppm
Total Suspended Solids	7/28/98	160.2	2810	ppm
pH	7/28/98	9040	6.6	
Flow Rate	7/28/98		68	mL/min

CONTAMINATED MATERIAL PERMEATE

Analyte	Date Analyzed	EPA SW846 Method	Results mg/L	Units
Oil & Grease	5/4/98	413.1	454	ppm
Total Suspended Solids	5/4/98	160.2	373	ppm

SYSTEM INFORMATION

Cleaner Manufacturer	N/A
Cleaner	N/A
Percent Organics Removed	55%
Percent Total Suspended Solids Removal	87%
Dump Frequency	1 day
Days Since Last Cleanout	1 day
Operating Temperature	72 F
Tank Size	500 gal
Contaminated Flow As Percent of Water	50%

** Less than 92% may not be recyclable due to low Total Organic Carbon recovery.
*** Less than 70% may result in lower than expected output from unit.

Continued on next page

SYSTEM SIZING INFORMATION

Estimated Service Interval:

Based on Combined Oil & Solids Results:	2-6	week(s)

Estimated System Size (number of Stacks):

Batch Process; single pass through Aqueous Processing Uni	5	stack (s)
Continual Recycling Process:	38	

Sample Description:

MOP WATER

SAMPLE HANDLING DATES

Date Sampled:	7/23/98
Date Received:	7/27/98

The analysis contained herein are performed to provide Safety-Kleen Corp. and its customers a means of determining compliant waste handling practices that are consistent with applicable permits and processing capability.

55R Compress
Lubes ultra Che

safety-kleen.

SAFETY-KLEEN SAMPLE ANALYSIS REPORT
Water Services -- Discharge Systems Report

SAMPLE DESCRIPTION:

PAGE 1

REPORT DATE: 08-27-98

S-K REPRESENTATIVE: RICK WEAVER
BRANCH #: 407602

CONTROL #: 1805487-7
SURVEY #: WS001466D
LAB #: 9805487

CUSTOMER #:
ORDINANCE REGION:

Generator: **ARVIN**
1001 HURRICANE ST
FRANKLIN, IN 46131
(317)346-2951

Attention: DAN BOUCHER

The enclosed Discharge Monitoring Analysis performed on the sample in question has identified certain parameter(s) which **DID EXCEED** permit/local ordinance limits on the dates in which these respective tests were conducted. Those parameter(s) are as follows: **Copper.**

The enclosed analysis report identifies concentration levels of specific pollutants in the sample only for the dates stated and according to the methods listed. Local ordinance limits may have been used if permit limits were not available. Safety-Kleen makes no representations, and hereby disclaims all representations, expressed or implied, other than as expressly stated in the attached analysis report for the dates listed. In addition, the analysis report does not absolve the generator from any liability that may arise in connection with the violation of any applicable regulatory requirements.

If you have any questions regarding the above analysis, please contact Customer Service at (773)825-7338.

Continued on next page

Safety-Kleen Corp. Technical Center

P.O. Box 92050
Elk Grove Village, IL 60009-2050
Fax: (773) 825-7853

12555 W. Old Higgins Rd.
Elk Grove Village, IL 60007
Telephone: (773) 825-7338

Analyte	Date Analyzed	EPA Method	Ordinance Limit	Result
1,1,1,2-Tetrachloroethane	08-04-98	8240		<0.050
1,1,1-Trichloroethane	08-04-98	8240		<0.050
1,1,2,2-Tetrachloroethane	08-04-98	8240		<0.050
1,1,2-Trichloroethane	08-04-98	8240		<0.050
1,1-Dichloroethane	08-04-98	8240		<0.050
1,2,3-Trichlorobenzene	08-04-98	8240		<0.050
1,2,3-Trichloropropane	08-04-98	8240		<0.050
1,2,3-Trimethylbenzene	08-04-98	8240		<0.050
1,2,4-Trichlorobenzene	08-04-98	8240		<0.050
1,2,4-Trimethylbenzene	08-04-98	8240		<0.050
1,2-Dibromo-3-Chloropropa	08-04-98	8240		<0.050
1,2-Dibromoethane	08-04-98	8240		<0.050
1,2-Dichlorobenzene	08-04-98	8240		<0.050
1,2-Dichloroethene(total)	08-04-98	8240		<0.050
1,2-Dichloropropane	08-04-98	8240		<0.050
1,3,5-Trimethylbenzene	08-04-98	8240		<0.050
1,3-Dichlorobenzene	08-04-98	8240		<0.050
1,3-Dichloropropane	08-04-98	8240		<0.050
1,4-Dichloro,2-Butene	08-04-98	8240		<0.050
1-Chlorobutane	08-04-98	8240		<0.050
1-Nitropropane	08-04-98	8240		<0.500
2,2-Dichloropropane	08-04-98	8240		<0.050
2-Chloroethylvinyl Ether	08-04-98	8240		<0.050
2-Chlorotoluene	08-04-98	8240		<0.050
2-Hexanone	08-04-98	8240		<0.100
2-Nitropropane	08-04-98	8240		<0.500
4-Chlorotoluene	08-04-98	8240		<0.050
4-Isopropyltoluene	08-04-98	8240		<0.050
4-Methyl-2-Pentanone	08-04-98	8240		<0.050
Acetone	08-04-98	8240		0.302
Acetonitrile	08-04-98	8240		<0.500
Acrylonitrile	08-04-98	8240		<0.050
Allyl Chloride	08-04-98	8240		<0.050
Benzyl Chloride	08-04-98	8240		<0.050
Bromobenzene	08-04-98	8240		<0.050
Bromochloromethane	08-04-98	8240		<0.100
Bromodichloromethane	08-04-98	8240		<0.050
Bromoform	08-04-98	8240		<0.050
Bromomethane	08-04-98	8240		<0.050
Carbon Disulfide	08-04-98	8240		<0.050
Chloroethane	08-04-98	8240		<0.050
Chloromethane	08-04-98	8240		<0.050
Cyclohexanone	08-04-98	8240		<0.400

Continued on next page

Dibromochloromethane	08-04-98	8240	<0.050
Dibromomethane	08-04-98	8240	<0.050
Dichlorodifluoromethane	08-04-98	8240	<0.050
Diethyl ether	08-04-98	8240	<0.050
Ethyl Methacrylate	08-04-98	8240	<0.050
Ethylbenzene	08-04-98	8240	<0.050
Hexane	08-04-98	8240	<0.050
Iodomethane	08-04-98	8240	<0.050
Isopropylbenzene	08-04-98	8240	<0.050
Methacrylonitrile	08-04-98	8240	<0.050
Methyl Methacrylate	08-04-98	8240	<0.050
Methyl-t-butyl ether	08-04-98	8240	<0.050
Methylene Chloride	08-04-98	8240	<0.050
Naphthalene	08-04-98	8240	<0.050
O-Xylene	08-04-98	8240	<0.050
Pentachloroethane	08-04-98	8240	<0.050
Styrene	08-04-98	8240	<0.050
Tetrahydrofuran	08-04-98	8240	<0.050
Toluene	08-04-98	8240	<0.050
Trichlorofluoromethane	08-04-98	8240	<0.050
Vinyl Acetate	08-04-98	8240	<0.100
Xylenes(total)	08-04-98	8240	<0.050
cis-1,2-Dichloroethene	08-04-98	8240	<0.050
cis-1,3-Dichloropropene	08-04-98	8240	<0.050
iso-Butanol	08-04-98	8240	<10.00
m+p-Xylenes	08-04-98	8240	<0.050
n-Butylbenzene	08-04-98	8240	<0.050
n-Propylbenzene	08-04-98	8240	<0.050
sec-Butylbenzene	08-04-98	8240	<0.050
tert-Butylbenzene	08-04-98	8240	<0.050
trans-1,2-Dichloroethene	08-04-98	8240	<0.050
trans-1,3-Dichloropropene	08-04-98	8240	<0.050
Benzene	08-04-98	8240	<0.050
Carbon Tetrachloride	08-04-98	8240	<0.050
Chlorobenzene	08-04-98	8240	<0.050
Chloroform	08-04-98	8240	<0.050
1,4-Dichlorobenzene	08-04-98	8240	<0.050
1,2-Dichloroethane	08-04-98	8240	<0.050
1,1-Dichloroethylene	08-04-98	8240	<0.050
Hexachlorobutadiene	08-04-98	8240	<0.050
Hexachloroethane	08-04-98	8240	<0.050
Methyl Ethyl Ketone	08-04-98	8240	<0.100
Tetrachloroethylene	08-04-98	8240	<0.050
Trichloroethylene	08-04-98	8240	<0.050
Vinyl Chloride	08-04-98	8240	<0.050

Continued on next page

CONTAMINATED MATERIAL FEED

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm	Units
Extractable Organics	07-29-98	413.1		410	ppm
Total Suspended Solids	07-28-98	160.2		426	ppm
pH	07-28-98	9040		5.2	

METALS IN DISCHARGE MONITORING

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm
Copper	**07-28-98**	**6010**	0.743	**4.36**
Nickel	07-28-98	6010	6.5103	<0.060
Zinc	07-28-98	6010	29.4332	0.336
Arsenic	07-28-98	6010	2.1435	<0.100
Cadmium	07-28-98	6010	0.323	<0.010
Chromium	07-28-98	6010	7.302	<0.010
Lead	07-28-98	6010	0.5935	<0.080

MISCELLANEOUS DISCHARGE MONITORING

Analyte	Date Analyzed	EPA Method	Ordinance Limit mg/L	Result	Units
Ammonia-Nitrates	08-04-98	350.2		0.821	mg/L
Biological Oxygen Demand	08-04-98	405.1		43	mg/L
Chemical Oxygen Demand	08-06-98	410.4		2180	ppm
Oil & Grease	07-29-98	413.1	100	52	ppm
Total Chloride	08-05-98	325.3		<0.8	mg/L
Total Dissolved Solids	07-28-98	160.1		231	ppm
Total Suspended Solids	07-28-98	160.2		28	ppm
Total Cyanide	07-29-98	335.2	0.1962	<0.5	ppm
Total Sulfide	08-02-98	376.1		<1.0	ppm

MISCELLANEOUS

Test	Date Analyzed	EPA Method	Ordinance Limit ppm	Result	Units
Phosphate, Total	08-05-98	365.2		<1.4	ppm
Total PCB	08-05-98	NONE		<1.0	

Continued on next page

SEMI-VOLATILES

Analyte	Date Analyzed	EPA Method	Ordinance Limit ppm	Result ppm	Units
1,2,4-Trichlorobenzene	07-29-98	8270		<0.100	mg/L
1,2-Dichlorobenzene	07-29-98	8270		<0.100	mg/L
1,3-Dichlorobenzene	07-29-98	8270		<0.100	mg/L
2,4-Dichlorophenol	07-29-98	8270		<0.100	mg/L
2,4-Dinitrophenol	07-29-98	8270		<0.500	mg/L
2,6-Dinitrotoluene	07-29-98	8270		<0.100	mg/L
2-Chloronaphthalene	07-29-98	8270		<0.100	mg/L
2-Chlorophenol	07-29-98	8270		<0.100	mg/L
2-Methylnaphthalene	07-29-98	8270		<0.100	mg/L
2-Nitroaniline	07-29-98	8270		<0.100	mg/L
2-Nitrophenol	07-29-98	8270		<0.100	mg/L
3,3'-Dichlorobenzidine	07-29-98	8270		<0.100	mg/L
3-Nitroaniline	07-29-98	8270		<0.500	mg/L
4,6-Dinitro-2-methylphenol	07-29-98	8270		<0.500	mg/L
4-Bromophenyl-phenylether	07-29-98	8270		<0.100	mg/L
4-Chloro-3-Methylphenol	07-29-98	8270		0.534	mg/L
4-Chloroaniline	07-29-98	8270		<0.100	mg/L
4-Chlorophenyl-phenylether	07-29-98	8270		<0.100	mg/L
4-Nitroaniline	07-29-98	8270		<0.100	mg/L
4-Nitrophenol	07-29-98	8270		<0.500	mg/L
Acenaphthene	07-29-98	8270		<0.100	mg/L
Acenaphthylene	07-29-98	8270		<0.100	mg/L
Aniline	07-29-98	8270		<0.100	mg/L
Anthracene	07-29-98	8270		<0.100	mg/L
Benzo(a)Anthracene	07-29-98	8270		<0.100	mg/L
Benzo(a)pyrene	07-29-98	8270		<0.100	mg/L
Benzo(b)fluoranthene	07-29-98	8270		<0.100	mg/L
Benzo(g,h,i)perylene	07-29-98	8270		<0.100	mg/L
Benzo(k)fluoranthene	07-29-98	8270		<0.100	mg/L
Benzoic Acid	07-29-98	8270		<0.010	mg/L
Benzyl Alcohol	07-29-98	8270		<0.100	mg/L
Bis(2-chloroethoxy)methane	07-29-98	8270		<0.100	mg/L
Bis(2-chloroethyl)ether	07-29-98	8270		<0.100	mg/L
Butylbenzylphthalate	07-29-98	8270		<0.100	mg/L
Chrysene	07-29-98	8270		<0.100	mg/L
Di-n-Butylphthalate	07-29-98	8270		<0.100	mg/L
Di-n-octylphthalate	07-29-98	8270		<0.100	mg/L
Dibenzo(a,h)anthracene	07-29-98	8270		<0.100	mg/L
Dibenzofuran	07-29-98	8270		<0.100	mg/L
Diethylphthalate	07-29-98	8270		<0.100	mg/L
Dimethylphthalate	07-29-98	8270		<0.100	mg/L
Fluoranthene	07-29-98	8270		<0.100	mg/L
Fluorene	07-29-98	8270		<0.100	mg/L
Hexachlorocyclopentadiene	07-29-98	8270		<0.100	mg/L
Indeno(1,2,3-cd)pyrene	07-29-98	8270		<0.100	mg/L

Continued on next page

Isophorone	07-29-98	8270	<0.100 mg/L
N-Nitrosodinpropylamine	07-29-98	8270	<0.100 mg/L
N-Nitrosodiphenylamine	07-29-98	8270	<0.100 mg/L
Naphthalene	07-29-98	8270	<0.100 mg/L
Phenanthrene	07-29-98	8270	<0.100 mg/L
Phenol	07-29-98	8270	<0.100 mg/L
Pyrene	07-29-98	8270	<0.100 mg/L
bis(2-Chloroisopropyl)ether	07-29-98	8270	<0.100 mg/L
bis(2-ethylhexyl)Phthalate	07-29-98	8270	<0.100 mg/L
2-Methylphenol	07-29-98	8270	<0.100 mg/L
3+4-Methylphenol	07-29-98	8270	<0.100 mg/L
1,4-Dichlorobenzene	07-29-98	8270	<0.100 mg/L
2,4-Dinitrotoluene	07-29-98	8270	<0.100 mg/L
Hexachlorobenzene	07-29-98	8270	<0.100 mg/L
Hexachlorobutadiene	07-29-98	8270	<0.100 mg/L
Hexachloroethane	07-29-98	8270	<0.100 mg/L
Nitrobenzene	07-29-98	8270	<0.100 mg/L
Pentachlorophenol	07-29-98	8270	<0.500 mg/L
Pyridine	07-29-98	8270	<0.100 mg/L
2,4,5-Trichlorophenol	07-29-98	8270	<0.100 mg/L
2,4,6-Trichlorophenol	07-29-98	8270	<0.100 mg/L

Continued on next page

Sample Description:

SAMPLE HANDLING DATES

Date Sampled:	07-23-98
Date Received:	07-27-98

LEACHING/EXTRACTION DATES

	Method	Date
BNA Extraction:	3510	07-28-98

The analysis contained herein are performed to provide Safety-Kleen Corp. and its customers a means of determining compliant waste handling practices that are consistent with applicable permits and processing capability.

End of Document

SAFETY-KLEEN SAMPLE ANALYSIS REPORT
Water Services - Recycle Systems Report

SAMPLE DESCRIPTION: OIL		**PAGE**	**1**
		REPORT DATE:	8/27/98
S-K REPRESENTATIVE: RICK WEAVER			
BRANCH #: 407602		**CONTROL #:**	1805486-5
		SURVEY #:	WS001466
CUSTOMER #:		**LAB #:**	9805486

Generator: **ARVIN**
101 HURRICANE ST.
FRANKLIN, IN 46131
(317) 346-2851

Attention: DAN BOUCHER

The enclosed Safety-Kleen report contains the analyses required to calculate the size of the system and service interval required.

This calculation is only an estimate based on the sample obtained. It may be necessary to vary the system size or service interval after the unit has been in place for awhile.

If you have any question regarding the above analysis, please contact Customer Service at (773)825-7338

Continued on next page

Safety-Kleen Corp. Technical Center

P.O. Box 92050
Elk Grove Village, IL 60009-2050
Fax: (773) 825-7853

12555 W. Old Higgins Road
Elk Grove Village, IL 60007
Telephone: (773) 825-7338

CONTAMINATED MATERIAL FEED

Analyte	Date Analyzed	EPA SW846 Method	Results mg/L	Units
Oil & Grease	7/29/98	413.1	410	ppm
Total Suspended Solids	7/28/98	160.2	426	ppm
pH	7/28/98	9040	5.2	
Flow Rate	7/28/98		41	mL/min

CONTAMINATED MATERIAL PERMEATE

Analyte	Date Analyzed	EPA SW846 Method	Results mg/L	Units
Oil & Grease	7/29/98	413.1	52	ppm
Total Suspended Solids	7/28/98	160.2	28	ppm

SYSTEM INFORMATION

Cleaner Manufacturer	N/A
Cleaner	N/A
Percent Organics Removed	87%
Percent Total Suspended Solids Removal	93%
Dump Frequency	1 day
Days Since Last Cleanout	4 days
Operating Temperature	72 F
Tank Size	55 gal
Contaminated Flow As Percent of Water	50%

** Less than 92% may not be recyclable due to low Total Organic Carbon recovery.

*** Less than 70% may result in lower than expected output from unit.

Continued on next page

SYSTEM SIZING INFORMATION

Estimated Service Interval:

Based on Combined Oil & Solids Results: 8-12 week(s)

Estimated System Size (number of Stacks):

Batch Process; single pass through Aqueous Processing Uni 1 stack (s)

Continual Recycling Process: 4

Sample Description:

OIL

SAMPLE HANDLING DATES

Date Sampled: 7/23/98
Date Received: 7/27/98

The analysis contained herein are performed to provide Safety-Kleen Corp. and its customers a means of determining compliant waste handling practices that are consistent with applicable permits and processing capability.

IEGS

INDIANA ENGINEERING & GEOLOGICAL SERVICES GROUP, INC.

15211 HERRIMAN BOULEVARD
NOBLESVILLE, IN 46060-4230

(317) 773-5020
FAX (317) 773-5046
TOLL FREE - (888) 773-IEGS

Arvin Industries, Inc
Attention: Mr. Danny Boucher
1001 North Hurricane St.
Franklin, IN 46131

August 12, 1998

RE: Geoprobe® Sampling
IEGS Project No. 0898A

Dear Mr. Boucher:

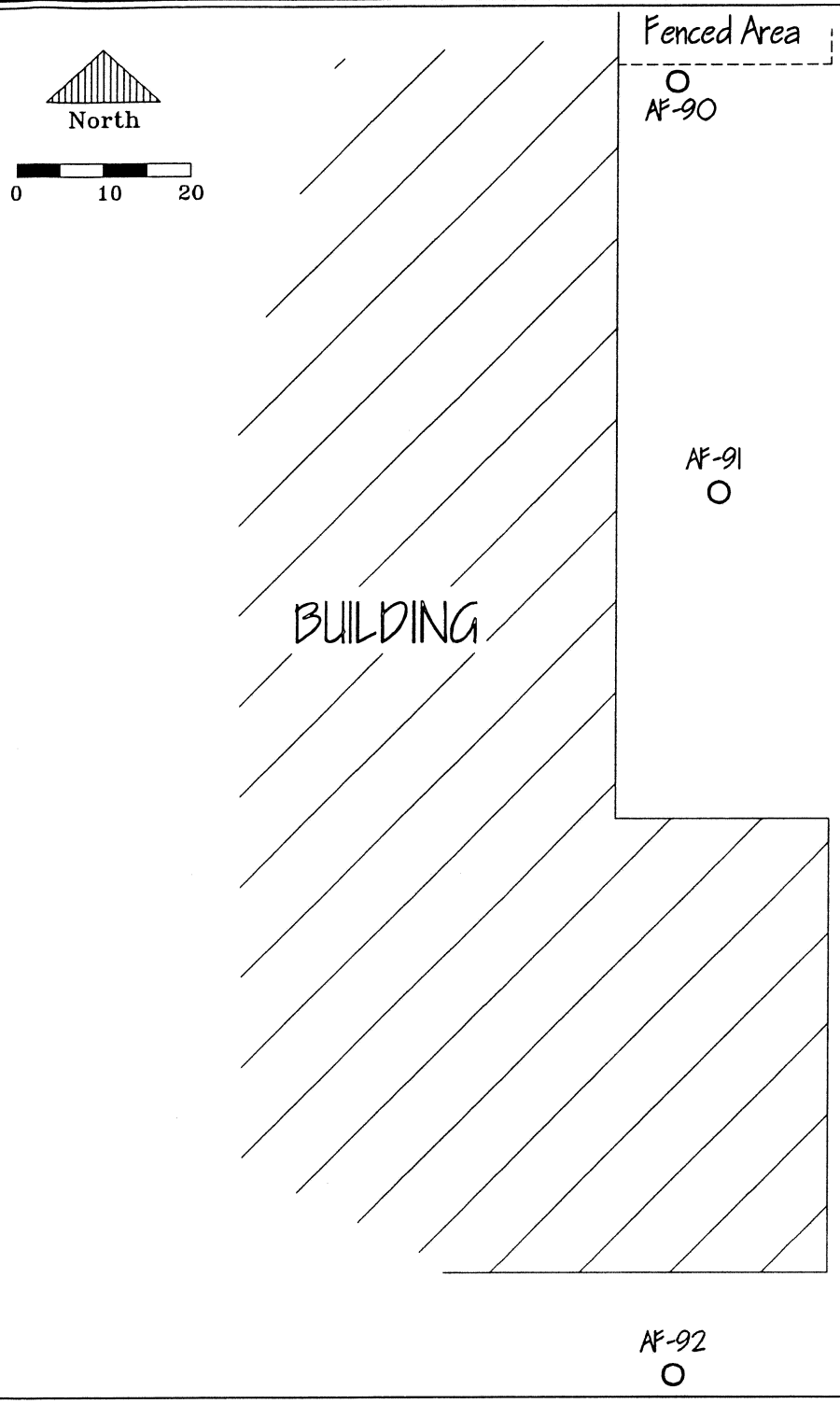
Accompanying this letter please find the boring location map and boring logs from the recently completed Geoprobe® sampling conducted at your facility. I trust you will find this information in order. Also enclosed are copies of the Chain of Custody documentation for the samples submitted to NET at your request.

Please feel free to call should have any questions or need additional assistance.

Sincerely,

David M. Johnson

Attachment



LEGEND

O GeoProbe Boring

Drawn By:	DMJ
Date:	8/12/98
Project No.:	0898A

INDIANA ENGINEERING AND GEOLOGICAL SERVICES GROUP, INC.
15211 Herriman Blvd., Noblesville, IN 46060 (317)773-5020

ARVIN INDUSTRIES
Boring Location Map

1001 Hurricane St., Franklin, Indiana

Scale: See Graphic Scale

File Name: 0898AMAP.DWG

Project No: 0898A

Location: 1001 Hurricane St.

City, State: Franklin, IN

Geologist: Sean McVey

Log of Borehole: AF-90

Depth	Description	Recovery	Sample Number	Sample Type	Volatile Organic Concentration (ppm)	Comments
0	***GRAVEL AND SAND*** With pieces of concrete.					
1	***CLAY*** Brown with no odor.					
2	Dark brown/gray, moist.					
3						
4						
5	***SANDY CLAY*** With some small gravel.					
6	***CLAY*** Brown, moist, with black stain at 5.0 ft.to 5.5 ft..		AF-90-6	MC		Sample taken for TPH analysis at 11:00.
7						
8	With gravel, very moist.					
9	***SAND*** Brown, very moist with some clay.					
10			AF-90-10	MC		Sample taken for chromium analysis at 11:02.
11	***CLAY*** Brown, very dense.					
12	End of Borehole					Boring plugged with bentonite.
13						
14						

IEGS

Drilling Contractor: IEGS

Drilling Method: Geoprobe Direct Push

Date Drilled: 08/07/98

MC = Macro Core

LB = Large Bore

Project No: 0898A

Location: 1001 Hurricane St.

City, State: Franklin, IN

Geologist: Sean McVey

Log of Borehole: AF-91

Depth	Description	Recovery	Sample Number	Sample Type	Volatile Organic Concentration (ppm)	Comments
0	***GRAVEL AND SAND***					
	SANDY CLAY Brown with gravel.					
1						
	CLAY Brown, dense, with small gravel.					
2	Black and brown at 2.0 ft.		AF-91-2	MC	49	Sample taken for TPH analysis at 12:00.
3	Brown, dense, with some small gravel at 3.0 ft.					
4	***SAND AND GRAVEL*** Black, moist, with some clay.		AF-91-4	MC		Sample taken for TPH analysis at 12:10.
5						
6						
7						
8	***CLAY*** Brown, very dense.					
9						
10			AF-91-10	MC		Sample taken for chromium analysis at 12:15.
11						
12	End of Borehole					Boring plugged with bentonite.
13						
14						

IEGS

Drilling Contractor: IEGS

Drilling Method: Geoprobe Direct Push

Date Drilled: 08/07/98

MC = Macro Core

LB = Large Bore

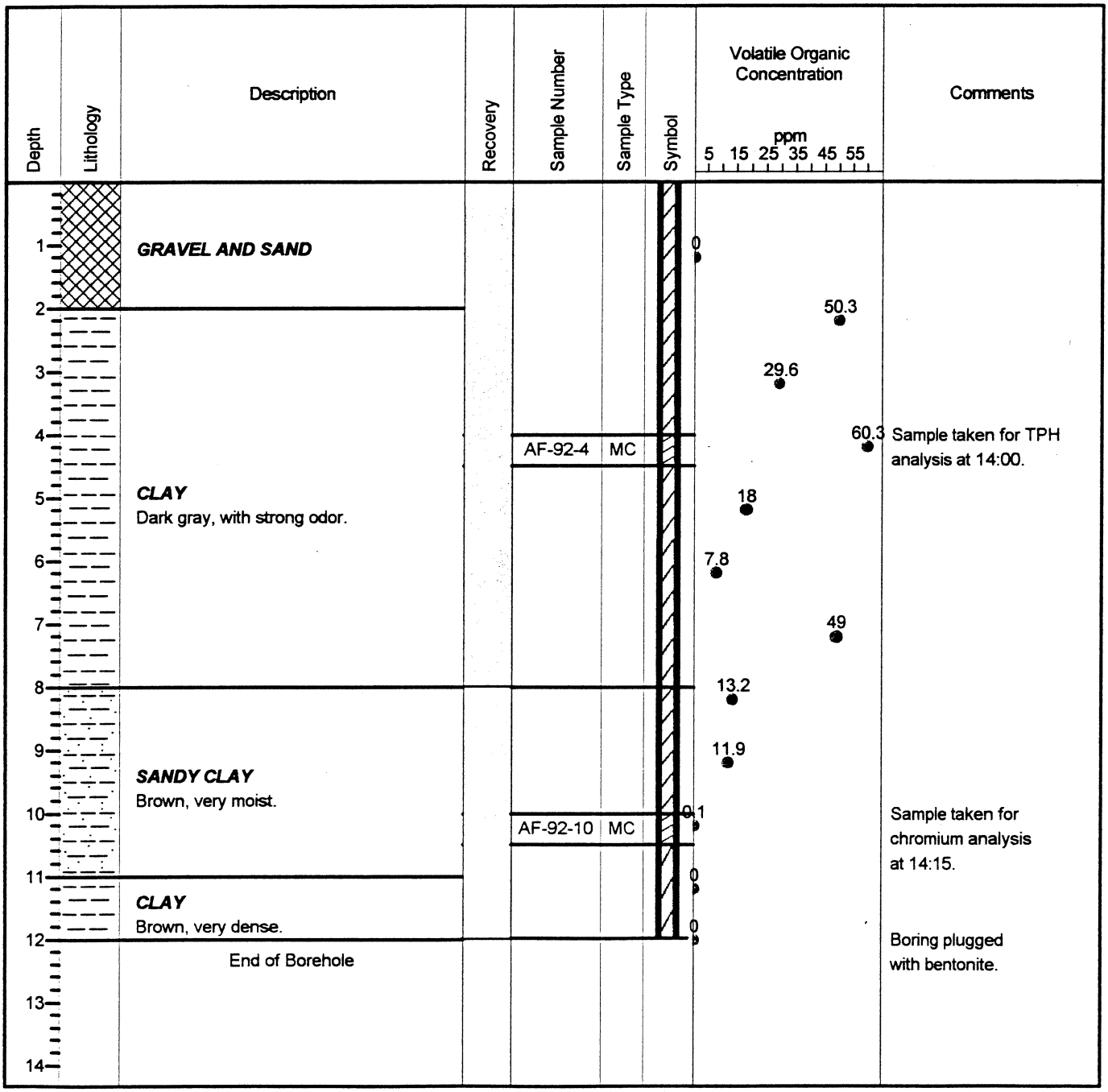
Project No: 0898A

Location: 1001 Hurricane St.

City, State: Franklin, IN

Geologist: Sean McVey

Log of Borehole: AF-92



IEGS

Drilling Contractor: IEGS

Drilling Method: Geoprobe Direct Push

Date Drilled: 08/07/98

MC = Macro Core

LB = Large Bore

NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY: ARVIN EXHAUST
ADDRESS: 1001 N. HURRICANE Franklin IN 46131
PHONE: 317 346-2858 FAX: 317-346-2819
PROJECT NAME/LOCATION: Franklin Plant
PROJECT NUMBER:
PROJECT MANAGER:

REPORT TO: Dan Boucher
INVOICE TO: Dan Boucher
P.O. NO. 314232
NET QUOTE NO.

SAMPLED BY: Dan Boucher (PRINT NAME) — SIGNATURE
(PRINT NAME) — SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: Chromium	Total Petro. Hydrocarbons	COMMENTS
8/7/98	11:00	AF-90								1/4	X	X	
8/7/98		AF-91								1/4	X	X	
8/7/98		AF-92								1/4	X	X	

ANALYSES: Test at 10' As Required By IEGS Suggestion

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ____ No ✓

Is this work being conducted for regulatory enforcement action? Yes ____ No ✓

Which regulations apply: RCRA ____ NPDES Wastewater ____ UST ____ Drinking Water ____ Other ____ None ____

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES (NO)

COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO

TEMPERATURE UPON RECEIPT: ____
Bottles supplied by NET? (YES) / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ____
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS ____ DATE 8-7-98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
	8-7-98						

METHOD OF SHIPMENT: IEGS Drop off

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

NET NATIONAL ENVIRONMENTAL TESTING, INC.®

CHAIN OF CUSTODY RECORD

COMPANY ARVIN EXHAUST
ADDRESS 1001 N. HURRICANE FRANKLIN IN 46131
PHONE 317 346-2851 FAX 317 346 2819
PROJECT NAME/LOCATION FRANKLIN PLANT
PROJECT NUMBER
PROJECT MANAGER

REPORT TO: DAN BOUCHER
INVOICE TO:
P.O. NO. 314232
NET QUOTE NO.

SAMPLED BY SEAN McVay (PRINT NAME) — SIGNATURE
(PRINT NAME) — SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: TPH 418.1	Chromium	Asbestos
8/7	1100	AF 90-6		X	X					2	X		
8/7	1102	AF 90-10		X						1		X	
8/7	1200	AF-91-2		X						2	X		
8/7	1210	AF-91-4		X						1	X		
8/7	1215	AF-91-10		X						1		X	
8/7	200	AF-92-4		X						2	X		
8/7	215	AF-92-10		X						1		X	
8/7	2:30	ASBESTOS		X						1		X	

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ____ No ✓
Is this work being conducted for regulatory enforcement action? Yes ____ No ✓
Which regulations apply: RCRA ____ NPDES Wastewater ____ UST ____ Drinking Water ____ Other ____ None ____

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO FIELD FILTERED? YES / (NO)
COC SEALS PRESENT AND INTACT? (YES) / NO VOLATILES FREE OF HEADSPACE? (YES) / NO
TEMPERATURE UPON RECEIPT: 2.2°C Bottles supplied by NET? (YES) / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ____ I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS Sean McVay DATE 7/8/98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Sean McVay	8/7	7:12p			8/7/98	19:12	Joshua S. Duth

METHOD OF SHIPMENT FEDEX

REMARKS: SITE INVESTIGATION

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1531 13th Street
Columbus, IN 47201

07/31/1998

NET Job Number: 98.04955

Enclosed are the Analytical Results for the following samples submitted to NET, Inc. Indianapolis Division for analysis:

Project Description: FRANKLIN PLANT

Sample Number	Sample Description	Date Taken	Date Received
213235	AF-79	07/20/1998	07/20/1998
213236	AF-80	07/20/1998	07/20/1998
213237	AF-81	07/20/1998	07/20/1998

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Project Representative

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1531 13th Street
Columbus, IN 47201

07/31/1998

Job No.: 98.04955

Date Received: 07/20/1998
Job Description: FRANKLIN PLANT

Sample Number / Sample I.D. Parameters	Result	Flag	Sample Date/ Units	Analyst & Date Analyzed	Method	Reporting Limit
213235 AF-79			07/20/1998			
Chromium, ICP	19	q	mg/kg	psc / 07/28/1998	SW 6010	<0.50
TPH - GC/FID Volatile (NONAQ)	<20.		mg/kg	sat / 07/27/1998	SW 8015M	<20.
TPH - GC SemiVolatile (NON-AQ)	21,000.	o,d1x100	mg/kg	jcb / 07/29/1998	SW 8015M	<2000.
TPH Extraction-Nonaqueous	Complete			cjs / 07/23/1998	SW 8015M	Complete
213236 AF-80			07/20/1998			
Chromium, ICP	6.2		mg/kg	psc / 07/28/1998	SW 6010	<0.50
TPH - GC/FID Volatile (NONAQ)	170	c,g	mg/kg	sat / 07/25/1998	SW 8015M	<20.
TPH - GC SemiVolatile (NON-AQ)	8,100.	a+od1x50	mg/kg	jcb / 07/29/1998	SW 8015M	<1000.
TPH Extraction-Nonaqueous	Complete			cjs / 07/23/1998	SW 8015M	Complete
213237 AF-81			07/20/1998			
Chromium, ICP	17		mg/kg	psc / 07/28/1998	SW 6010	<0.50
TPH - GC/FID Volatile (NONAQ)	43	c,g	mg/kg	sat / 07/25/1998	SW 8015M	<20.
TPH - GC SemiVolatile (NON-AQ)	3,800.	o,d1x20	mg/kg	jcb / 07/29/1998	SW 8015M	<400.
TPH Extraction-Nonaqueous	Complete			cjs / 07/23/1998	SW 8015M	Complete

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

KEY TO ABBREVIATIONS

<	Less than; when appearing in the results column indicates the analyte was not detected at or above the reported value.
mg/L	Concentration in units of milligrams of analyte per Liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per million (ppm).
ug/L	Concentration in units of micrograms of analyte per Liter of sample. Measurement used for aqueous samples. Can also be expressed as parts per billion (ppb).
mg/kg	Concentration in units of milligrams of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per million (ppm).
ug/kg	Concentration in units of micrograms of analyte per kilogram of sample. Measurement used for non-aqueous samples. Can also be expressed as parts per billion (ppb).
a	Indicates the sample concentration was quantitated using a diesel fuel standard.
b	Indicates the analyte of interest was also found in the method blank.
c	Samples resembles unknown Hydrocarbon.
d1	Indicates the analyte has elevated reporting limit due to high concentration.
d2	Indicates the analyte has elevated reporting limit due to matrix.
e	Indicates the reported concentration is estimated.
f	Indicates the sample concentration was quantitated using a fuel oil standard.
g	Indicates the sample concentration was quantitated using a gasoline standard.
h	Indicates the sample was analyzed past holding time.
i	Indicates the sample spike concentration was insufficient, due to high analyte concentration in the sample.
j	Indicates the reported concentration is below the Reporting Limit.
k	Indicates the sample concentration was quantitated using a kerosene standard.
l	Indicates an MS/MSD was not analyzed due to insufficient sample. An LCS duplicate has been provided.
m	Indicates the sample concentration was quantitated using a mineral spirits standard.
o	Indicates the sample concentration was quantitated using a motor oil standard.
p	Indicates the sample was post spiked due to sample matrix.
q	Indicates MS/MSD exceeded control limits. All other QCIs were in control.
r	Indicates the sample was received past holding time.
s	Indicates the sample concentration was quantitated using a stoddard solvent standard.
u	Indicates the sample was received improperly preserved and/or contained.
uj	Indicates the result is under the reporting limit and considered an estimated concentration.
TCLP	Indicates the Toxicity Characteristic Leaching Procedure was performed for this analysis.
ICP	Indicates the analysis was performed using Inductively Coupled Plasma Spectroscopy.
GFAA	Indicates the analysis was performed using Graphite Furnace Atomic Absorption Spectroscopy.
%	Percent; To convert ppm to %, divide the result by 10,000. To convert % to ppm, multiply the result by 10,000.
*	Reporting limits are elevated due to insufficient sample submitted by client.
Dry Weight	When indicated, the results are reported on a dry weight basis. The contribution of the moisture content in the sample is subtracted when calculating the concentration of the analyte.

NET NATIONAL ENVIRONMENTAL TESTING, INC.®

CHAIN OF CUSTODY RECORD

COMPANY ARVIN Exhaust
ADDRESS 1001 N. Hurricane
PHONE (317)346-2851 FAX 317 346-2819
PROJECT NAME/LOCATION Franklin Plant
PROJECT NUMBER
PROJECT MANAGER

REPORT TO: Dan Boucher
INVOICE TO: Dan Boucher
P.O. NO. 314232
NET QUOTE NO.

SAMPLED BY Dan Boucher (PRINT NAME) SIGNATURE
(PRINT NAME) SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: Total Chromium	Total Petroleum Hydrocarbons
7/20/98	10:10	AF-79								1G	X	X
7/20/98	10:15	AF-80								1G	X	X
7/20/98	10:20	AF-81								1G	X	X

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ____ No ✓

Is this work being conducted for regulatory enforcement action? Yes ____ No ✓

Which regulations apply: RCRA ____ NPDES Wastewater ____ UST ____ Drinking Water ____ Other ____ None ____

COMMENTS

- GRO + DRO

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / (NO)
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 1.1 °C
Bottles supplied by NET? (YES) NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ____
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS ____ DATE 7-20-98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
	7-20-98	10:25	Michael Meyer	Michael Meyer	7/20/98	13:35	

METHOD OF SHIPMENT NET Pick-up

REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1001 N. Hurricane
Franklin, IN 46131

08/13/1998

Sample No.: 215518
Job No.: 98.05591
P.O. NO.: 314232

Sample Description: ASBESTOS SAMPLE

Date Taken: 08/07/1998 Date Received: 08/07/1998

Asbestos, Bulk Complete

ASBESTOS IDENTIFICATION

BULK SAMPLE ANALYSIS

	% By Visual Estimation
Sample Color	GR
FIBROUS ASBESTIFORMS	
Actinolite/Tremolite	ND
Amosite	ND
Anthophylite	ND
Chrysotile	18
Crocidolite	ND
Total Fibrous Asbestiforms	18
OTHER FIBROUS COMPONENTS	
Cellulose	ND
Fibrous Glass	ND
Synthetics	ND
Other	ND
NONFIBROUS COMPONENTS	82

This sample was for Home project. 9-98 DB
Need more

All analyses are performed in accordance with EPA 40 CFR, Part 763, Appendix A to Subpart F using EPA's "Interim Method for the Determination of Asbestos in bulk Insulation Samples" and/or the Test Method "Method for the Determination of Asbestos in Bulk Building Materials".

ND means less than 1%, and % refers to percent by volume.

Analyst: CF
Date of Analysis: 08/11/1998

Lori Barnett
Project Representative

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ARUIN EXHAUST
ADDRESS 1001 N. HURRICANE FRANKLIN IN 46131
PHONE 317 346-2851 FAX 317 346 2819
PROJECT NAME/LOCATION FRANKLIN PLANT
PROJECT NUMBER
PROJECT MANAGER

REPORT TO: DAN BOUCHER
INVOICE TO: "
P.O. NO. 314232
NET QUOTE NO.

SAMPLED BY
SEAN McVay (PRINT NAME) — Sean McVay (SIGNATURE)
(PRINT NAME) — (SIGNATURE)

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: TPH 418.1	Chromium	Asbestos
8/7	1100	AF 90-6		X	~~X~~					2	X		
8/7	1102	AF 90-10		X	OK					1		X	
8/7	1200	AF-91-2		X						2	X		
8/7	1210	AF-91-4		X						1	X		
8/7	1215	AF-91-10		X						1		X	
8/7	200	AF-92-4		X						2	X		
8/7	215	AF-92-10		X						1		X	
8/7	2:30	ASBESTOS		X						1		~~X~~ BB	X

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ____ No ✓
Is this work being conducted for regulatory enforcement action? Yes ____ No ✓
Which regulations apply: RCRA ____ NPDES Wastewater ____ UST ____ Drinking Water ____ Other ____ None ____

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO
FIELD FILTERED? YES / (NO)
COC SEALS PRESENT AND INTACT? (YES) / NO
VOLATILES FREE OF HEADSPACE? (YES) / NO
TEMPERATURE UPON RECEIPT: 2.2°C
Bottles supplied by NET? (YES) / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ____
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS Sean McVay DATE 7/8/98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Sean McVay	8/8	7:12pm			8/7/98	19:12	Joshua S. Outlaw

METHOD OF SHIPMENT: IEGS

REMARKS: SITE INVESTIGATION

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

August 14, 1998

Dear Valued Customer:

In compliance with Federal regulations pertaining to the use of Freon, be advised that NET-Indianapolis will no longer use this solvent in any of its processes. This change has been made effective August 12, 1998.

This means that Oil/Grease method changes from E-413.1 to E-1664. Method E-1664 calls for the use of hexane as the extraction solvent. The laboratory established reporting limit will stay at 5 mg/L.

Should you have any questions/ comments, please contact your Customer Service Representative.

Thank you for your business!

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

Soil Samples

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1001 N. Hurricane
Franklin, IN 46131

08/19/1998

NET Job Number: 98.05495

Enclosed are the Analytical Results for the following samples submitted to NET, Inc. Indianapolis Division for analysis:

Project Description: FRANKLIN PLANT

Sample Number	Sample Description	Date Taken	Date Received
215223	AF90-6	08/07/1998	08/07/1998
215224	AF90-10	08/07/1998	08/07/1998
215225	AF91-2	08/07/1998	08/07/1998
215226	AF91-4	08/07/1998	08/07/1998
215227	AF91-10	08/07/1998	08/07/1998
215228	AF92-4	08/07/1998	08/07/1998
215229	AF92-10	08/07/1998	08/07/1998

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Ron Barnett DFW
Project Representative

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1001 N. Hurricane
Franklin, IN 46131

08/19/1998

Job No.: 98.05495

Date Received: 08/07/1998
Job Description: FRANKLIN PLANT

Sample Number / Sample I.D. Parameters	Result	Flag	Sample Date/ Units	Analyst & Date Analyzed	Method	Reporting Limit
215223 AF90-6			08/07/1998			
TPH (by IR) - Solid	100		mg/kg	out / 08/17/1998	EPA 418.1M	<10.
215224 AF90-10			08/07/1998			
Chromium, ICP	6.0		mg/kg	psc / 08/13/1998	SW 6010	<0.50
215225 AF91-2			08/07/1998			
TPH (by IR) - Solid	240		mg/kg	out / 08/17/1998	EPA 418.1M	<10.
215226 AF91-4			08/07/1998			
TPH (by IR) - Solid	120		mg/kg	out / 08/17/1998	EPA 418.1M	<10.
215227 AF91-10			08/07/1998			
Chromium, ICP	8.4		mg/kg	psc / 08/13/1998	SW 6010	<0.50

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1001 N. Hurricane
Franklin, IN 46131

08/19/1998

Job No.: 98.05495

Date Received: 08/07/1998
Job Description: FRANKLIN PLANT

Sample Number / Sample I.D. Parameters	Result	Flag	Sample Date/ Units	Analyst & Date Analyzed	Method	Reporting Limit
215228 AF92-4			08/07/1998			
TPH (by IR) - Solid	7600		mg/kg	out / 08/17/1998	EPA 418.1M	<10.
215229 AF92-10			08/07/1998			
Chromium, ICP	8.9		mg/kg	psc / 08/13/1998	SW 6010	<0.50

NET NATIONAL ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY RECORD

COMPANY ARVIN EXHAUST
ADDRESS 1001 N. HURRICANE FRANKLIN IN 46131
PHONE 317 346-2851 FAX 317 346 2819
PROJECT NAME/LOCATION FRANKLIN PLANT
PROJECT NUMBER
PROJECT MANAGER

REPORT TO: DAN BOUCHER
INVOICE TO: "
P.O. NO. 314232
NET QUOTE NO.

SAMPLED BY SEAN McVey (PRINT NAME) — Sean McVey (SIGNATURE)
(PRINT NAME) — (SIGNATURE)

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: TPH 418.1	Chromium	Asbestos
8/7	1100	AF 90-6		X	X					2	X		
8/7	1102	AF 90-10		X	OR					1		X	
8/7	1200	AF-91-2		X						2	X		
8/7	1210	AF-91-4		X						1	X		
8/7	1215	AF-91-10		X						1		X	
8/7	200	AF-92-4		X						2	X		
8/7	215	AF-92-10		X						1		X	
8/7	2:30	ASBESTOS		X						1		X	

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ____ No ✓
Is this work being conducted for regulatory enforcement action? Yes ____ No ✓
Which regulations apply: RCRA ____ NPDES Wastewater ____ UST ____ Drinking Water ____ Other ____ None ____

COMMENTS

CONDITION OF SAMPLE: BOTTLES INTACT? (YES) / NO FIELD FILTERED? YES / (NO)
COC SEALS PRESENT AND INTACT? (YES) / NO VOLATILES FREE OF HEADSPACE? (YES) / NO
TEMPERATURE UPON RECEIPT: 2.2°C Bottles supplied by NET? (YES) / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ____ I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS Sean McVey DATE 7/8/98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
Sean McVey	8/8	7:12pm			8/7/98	19:12	Joshua S. Outlaw

METHOD OF SHIPMENT IEGS

REMARKS: SITE INVESTIGATION

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

August 14, 1998

Dear Valued Customer:

In compliance with Federal regulations pertaining to the use of Freon, be advised that NET-Indianapolis will no longer use this solvent in any of its processes. This change has been made effective August 12, 1998.

This means that Oil/Grease method changes from E-413.1 to E-1664. Method E-1664 calls for the use of hexane as the extraction solvent. The laboratory established reporting limit will stay at 5 mg/L.

Should you have any questions/ comments, please contact your Customer Service Representative.

Thank you for your business!

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1001 N. Hurricane
Franklin, IN 46131

08/13/1998

NET Job Number: 98.05160

Enclosed are the Analytical Results for the following samples submitted to NET, Inc. Indianapolis Division for analysis:

Project Description: FRANKLIN PLANT

Sample Number	Sample Description	Date Taken	Date Received
214044	AF-85	07/28/1998	07/28/1998
214045	AF-86	07/28/1998	07/28/1998

National Environmental Testing, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Project Representative

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

ANALYTICAL REPORT

Mr. Dan Boucher
ARVIN INDUSTRIES
1001 N. Hurricane
Franklin, IN 46131

08/13/1998

Job No.: 98.05160

Date Received: 07/28/1998
Job Description: FRANKLIN PLANT

Sample Number / Sample I.D. Parameters	Result	Flag	Sample Date/ Units	Analyst & Date Analyzed	Method	Reporting Limit
214044 AF-85			07/28/1998			
TPH (by IR) - Solid	21,000		mg/kg	out / 08/03/1998	EPA 418.1M	<10.
Chromium, ICP	6.0		mg/kg	psc / 08/03/1998	SW 6010	<0.50
214045 AF-86			07/28/1998			
TPH (by IR) - Solid	122		mg/kg	out / 08/03/1998	EPA 418.1M	<10.
Chromium, ICP	11		mg/kg	psc / 08/03/1998	SW 6010	<0.50

NET NATIONAL ENVIRONMENTAL TESTING, INC.®

CHAIN OF CUSTODY RECORD

COMPANY ARVIN Exhaust
ADDRESS 1001 N. Hurricane Franklin IN 46131
PHONE 317-346-2851 FAX 317-346-2819
PROJECT NAME/LOCATION Franklin Plant
PROJECT NUMBER —
PROJECT MANAGER —

REPORT TO: Dan Boucher
INVOICE TO: Dan Boucher
P.O. NO. 314232
NET QUOTE NO. —

SAMPLED BY
Dan Boucher (PRINT NAME) — SIGNATURE
(PRINT NAME) — SIGNATURE

DATE	TIME	SAMPLE ID/DESCRIPTION	MATRIX	GRAB	COMP	# and Type of Containers: HCl	NaOH	HNO_3	H_2SO_4	OTHER	ANALYSES: Total Chromium	Total Petroleum Hydrocarbons (TPH)	COMMENTS
7/28/98	11:39a	AF-85								1/4	X	X	
7/28/98	11:30a	AF-86								1/4	X	X	

To assist us in selecting the proper method

Is this work being conducted for regulatory compliance monitoring? Yes ___ No ✓

Is this work being conducted for regulatory enforcement action? Yes ___ No ✓

Which regulations apply: RCRA ___ NPDES Wastewater ___ UST ___ Drinking Water ___ Other ___ None ___

CONDITION OF SAMPLE: BOTTLES INTACT? YES / NO
FIELD FILTERED? YES / (NO)
COC SEALS PRESENT AND INTACT? YES / NO
VOLATILES FREE OF HEADSPACE? YES / NO
TEMPERATURE UPON RECEIPT: 4.8 °C
Bottles supplied by NET? (YES) / NO

SAMPLE REMAINDER DISPOSAL: RETURN SAMPLE REMAINDER TO CLIENT VIA ___
I REQUEST NET TO DISPOSE OF ALL SAMPLE REMAINDERS
DATE 7-27-98

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	RELINQUISHED BY:	DATE	TIME	RECEIVED FOR NET BY:
	7-28-98	11:40			7/28/98	13:50	7/28/98 1350

METHOD OF SHIPMENT: NET - Pick-up
REMARKS:

PT 1 - ORIGINAL - WHITE PT 2 - NET PROJECT MANAGER - YELLOW PT 3 - CUSTOMER COPY - PINK

NATIONAL ENVIRONMENTAL TESTING, INC.

Indianapolis Division
6964 Hillsdale Ct.
Indianapolis, IN 46250
Tel: (317) 842-4261
Fax: (317) 842-4286

August 14, 1998

Dear Valued Customer:

In compliance with Federal regulations pertaining to the use of Freon, be advised that NET-Indianapolis will no longer use this solvent in any of its processes. This change has been made effective August 12, 1998.

This means that Oil/Grease method changes from E-413.1 to E-1664. Method E-1664 calls for the use of hexane as the extraction solvent. The laboratory established reporting limit will stay at 5 mg/L.

Should you have any questions/ comments, please contact your Customer Service Representative.

Thank you for your business!

SHERRY LABORATORIES

Page 1 SHERRY LABS/COL TEST REPORT Work Order # 00-06-720
Received: 06/22/00 07/10/00 08:41:54

ATTEN
REPORT Viox
TO 1001 N. Hurricane St.
Franklin, IN 46131

CERTIFIED BY Paul O. Gerth

CONTACT PAUL

PREPARED BY Sherry Laboratories/Columbus
629 Washington Street
Suite 300
Columbus, Indiana 47201
ATTEN Paul O. Gerth
PHONE (812) 375-0531 FAX 375-0731

CLIENT VIOX SAMPLES 1
COMPANY Viox
FACILITY 1001 N. Hurricane St.
Franklin, IN 46131

Paul O. Gerth - Director
Certified by IN# C-03-02 Col IN# C-18-02 Mun IN# C-02-02 FtW
IN# M-3-2 Col IN# M-18-5 Mun
The results relate only to the samples tested.

WORK ID Air Compressor Area
TAKEN 6/20/00
TRANS Hand
TYPE Other
P.O. # 731156GM
INVOICE under separate cover

SAMPLE IDENTIFICATION	TEST CODES and NAMES used on this workorder	
01 Air Compressor Area	AGTCLP	Silver in TCLP extract
01 Air Compressor Area-MS	ASTCLP	Arsenic in TCLP extract
01 Air Compressor Area-MSD	BATCLP	Barium in TCLP extract
01 Air Compressor Area-Blank	CDTCLP	Cadmium in TCLP extract
	CRTCLP	Chromium in TCLP extract
	HGPREP	Preparation for Mercury
	HGTCLP	Mercury in TCLP extract
	MEPREP	Preparation for Metals
	PBTCLP	Lead in TCLP extract
	SETCLP	Selenium in TCLP extract
	TCLP	TCLP extraction and prep

TOTAL PAGES OF THIS REPORT : 5

SHERRY LABORATORIES

Page 2 LAB I.D. 0006720-01A DATE REPORTED: 07/10/00

SAMPLE DESCRIPTION Air Compressor Area
DATE COLLECTED: 06/20/00

Analyte	Analyst Initials	Date Completed	Reference Method	Detection Limit	RCRA Limit	Concentration (ppm)
Silver in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	<0.1
Arsenic in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	5.0 ppm	<0.2
Barium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	100 ppm	0.3
Cadmium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	1.0 ppm	<0.1
Chromium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	<0.1
Mercury in TCLP extract	FJR	06/30/00	SW846-7470	0.05 ppm	0.20 ppm	<0.05
Lead in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	<0.1
Selenium in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	1.0 ppm	<0.2
TCLP Preparation	FJR	06/26/00	SW846-1311			

SHERRY LABORATORIES

Page 3 LAB I.D. 9006720-01B DATE REPORTED: 07/10/00

SAMPLE DESCRIPTION Air Compressor Area-NW

DATE COLLECTED: 06/20/00

Analyte	Analyst Initials	Date Completed	Reference Method	Detection Limit	RCRA Limit	Concentration (ppm)
Silver in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	ND
Arsenic in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	5.0 ppm	ND
Barium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	100 ppm	ND
Cadmium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	1.0 ppm	ND
Chromium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	ND
Mercury in TCLP extract	FJR	06/30/00	SW846-7470	0.05 ppm	0.20 ppm	N.D.
Lead in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	ND
Selenium in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	1.0 ppm	ND

SHERRY LABORATORIES

Page 4 LAB I.D. 0006729-01C DATE REPORTED: 07/10/00

SAMPLE DESCRIPTION Air Compressor Area-MSD
DATE COLLECTED: 06/20/00

Analyte	Analyst Initials	Date Completed	Reference Method	Detection Limit	RCRA Limit	Concentration (ppm)
Silver in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	ND
Arsenic in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	5.0 ppm	106
Barium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	100 ppm	98
Cadmium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	1.0 ppm	ND
Chromium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	ND
Mercury in TCLP extract	FJR	06/30/00	SW846-7470	0.05 ppm	0.20 ppm	N.D.
Lead in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	ND
Selenium in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	1.0 ppm	105

SHERRY LABORATORIES

Page 5 LAB I.D. 0006720-01D DATE REPORTED: 07/10/00

SAMPLE DESCRIPTION Air Compressor Area-Blank
DATE COLLECTED: 06/20/00

Analyte	Analyst Initials	Date Completed	Reference Method	Detection Limit	RCRA Limit	Concentration (ppm)
Silver in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	<0.1
Arsenic in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	5.0 ppm	<0.2
Barium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	100 ppm	<0.1
Cadmium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	1.0 ppm	<0.1
Chromium in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	<0.1
Mercury in TCLP extract	FJR	06/30/00	SW846-7470	0.05 ppm	0.20 ppm	<0.05
Lead in TCLP extract	FJR	07/07/00	SW846-6010	0.1 ppm	5.0 ppm	<0.1
Selenium in TCLP extract	FJR	07/07/00	SW846-6010	0.2 ppm	1.0 ppm	<0.2

Sieco, Inc.
Engineers

SIECO

629 Washington Street
P.O. Box 407
Columbus, Indiana 47202
Phone: 812-372-9911
FAX: 812-372-7190

March 4, 1998

Mr. Jerry Kean
Arvin Exhaust
1001 Hurricane St.
Franklin, IN 46131

Dear Mr. Kean

At the request of Arvin Exhaust, SIECO Inc. completed soil sampling and analysis at the facility located at 1001 Hurricane Street in Franklin to determine whether soil contamination exists from petroleum fluid storage and handling in the old mill area.

A Phase I Site Assessment was not performed or provided for the site. The investigation focused on the subsurface of the mill area located on the south end of the facility. Information provided indicated a history of milling machines in the room. For this reason the scope of the investigation was limited to sample analysis for total petroleum hydrocarbons (TPH).

The purpose of this investigation was to determine the presence of potential petroleum contaminants. This report was prepared to document sampling and analysis procedures and discuss analytical results of soil samples to the extent possible.

SAMPLING AND ANALYSIS PROCEDURES

On February 19, 1998 SIECO personnel completed sampling activities at the Site. Samples were obtained using a stainless steel hand auger. Five (5) inch cores were cut from the concrete floor by ABC Cutting Contractors so as to access the subsurface with the hand auger. Mr. Peter Newell of SIECO completed the boring and sampling activities and classified samples obtained. Samples were analyzed by Sherry Laboratories of Muncie, Indiana.

Borings were completed on the southeast side of the facility in the old mill area to determine the presence of petroleum contaminated soils. The locations of each of the borings are shown on the Site Diagram in Figure 1.

Samples were taken continuously from each boring in six (6) inch intervals. Samples were generally classified in one (1) foot intervals and field screened for organic vapors. Color, grain size, and other observations were completed for each sample. This information is shown on the soil boring logs along with HNu screening results, sample depths, and total depth of each boring. Boring logs are enclosed.

During the field event, proper sampling procedures were strictly followed. Samples to be submitted for laboratory analysis were collected in four ounce (4 oz.) glass containers with septa. After being filled, sample containers were packed on ice in coolers to maintain a 4°C sample temperature for proper preservation. To avoid possible cross contamination of samples, all reused sampling equipment was decontaminated with a phosphate-free detergent wash and tap water rinse prior to and following the collection of each sample. In

addition, disposable latex gloves were worn during the collection of samples. Proper chain of custody records were also initiated during the sampling event.

Samples were submitted to the laboratory to be analyzed for TPH using SW846 modified method 8015. TPH analyses include detection of gasoline and diesel range organic compounds. Laboratory reports are enclosed.

RESULTS

A total of six (6) soil probes were completed on the Site on December 5, 1997. Borings were completed to depths up to five feet. Boring locations are shown on the Site Diagram in Figure 1.

The following table summarizes the soil boring sample results for TPH:

Sample	Depth (ft)	TPH(ppm)
B1-A	0.5 - 1.5	10,800
B2-A	0.5 - 1.5	6,240
B2-B	2.5 - 4.0	ND
B3-A	2.5 - 3.5	ND
B4-B	1.5	29,160
B5-B	2.5 - 3.0	ND
B5-C	3.5 - 5.0	ND

ND = Not Detected.

B1 was taken forty-five (45) feet south of the north wall and eight (8) feet west of the east wall. Black water just below the concrete floor was initially noticed in the core hole. The soil sampled and submitted for TPH from the surface to 1.5 feet was a sandy loam with petroleum odor saturatedwith the water from the surface. The hand auger was driven to 2.5 feet before being obstructed from further advancement. Laboratory results indicate that 10,800 ppm TPH were found in this sample.

B2 was taken twenty eight (28) feet south of B1. No water was encountered in this boring. The two foot sandy loam strata was followed by a dark clay with a degraded petroleum odor. Two samples were submitted from this boring. The first sample from the top foot of the boring was found to contain 6,240 ppm total petroleum hydrocarbon. TPH was not detected in the sample submitted from the 2.5 to 4.0 feet. The hand auger was refused at four (4) feet.

B3 was located about 43 feet south of B2. A sample was submitted from the 2.5 to 3.5 foot interval. Although the sample had a mild petroleum odor, the laboratory did not detect TPH above the 10 ppm detection limit.

Located in the southwest corner of the room and thirty-seven feet west of B3, boring B4 was completed. The initial foot of strata was a brown sandy clay, which was followed by a dark, sandy clay with petroleum odor. An obstruction, believed to be PVC piping in the boring at 1.5 feet, impeded further advancement of the hand auger. The sample submitted

from the dark material at 1.5 feet was found to have the highest TPH in the series at 29,160 ppm.

North of B4 by forty (40) feet, boring B5 was completed to five (5) feet. Sandy loam comprised the first two feet of strata, followed by thin lens of black sand, cinders, and coal slag which was submitted for analysis as B5-B. The 3.5 to 5.0 feet sample was also submitted for TPH analysis. No TPH was found in either sample submitted.

The coring of B6, forty-two (42) feet north of B5, revealed loose packed gravel below the surface of the concrete. Hand borings were attempted through the gravel but later determined futile due to cave-in. The gravel was very clean and is believed to be more than one foot deep.

CONCLUSIONS AND RECOMMENDATIONS

It is evident based upon the subsurface investigation and the laboratory results that former operations in the area have impacted the subsurface. Petroleum contamination was found within the first two (2) feet of soil. The highest concentration of TPH was found in boring B4 at 29,160 ppm. This sample was taken from 1.5 feet in depth. The total depth of TPH contamination could not be determined by the sampling performed; however, contamination is presumed to be limited to the upper two (2) feet of soil.

SIECO recommends that additional investigations be performed to determine the extent of petroleum contamination in this area. It may be in the best interest of Arvin to initiate floor demolition activities prior to additional sampling activities. The removal of the floor would aid in determining contamination limits and boring locations based on field observations. Additional sampling could also be completed prior to floor removal to determine the quantity of soil which will require petroleum waste disposal.

Deeper sampling for TPH contamination should be completed near boring locations B1 and B4. If petroleum contamination is found at depth, a groundwater sample should be collected for TPH analysis.

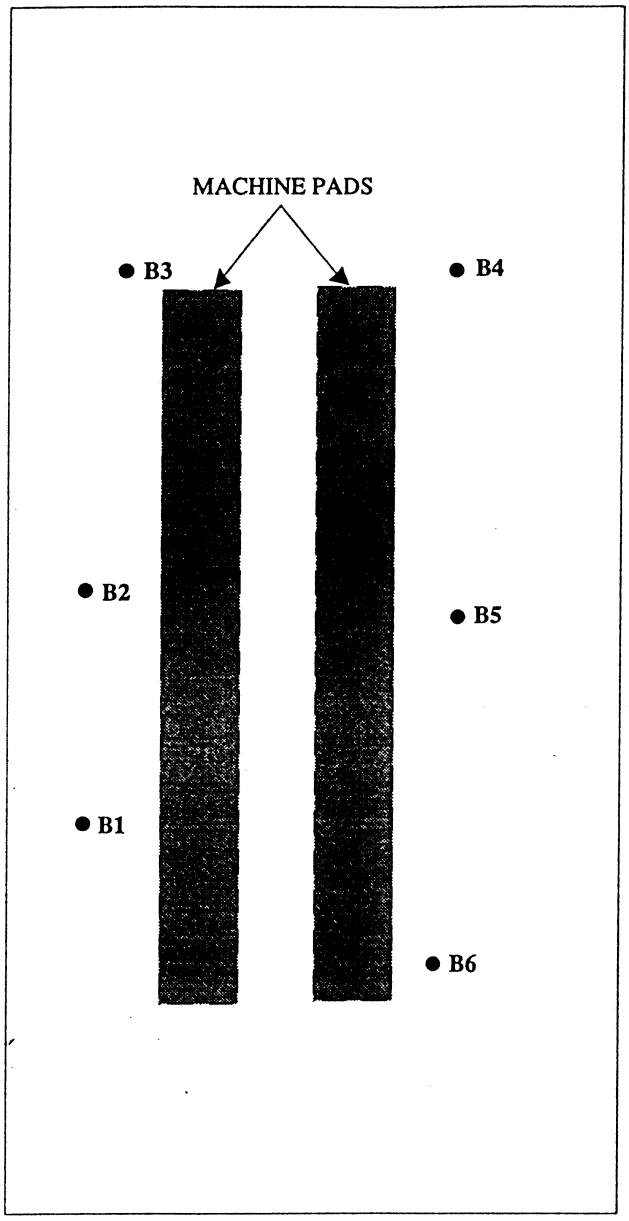
SIECO recommends that petroleum contaminated soil be removed from the site and disposed as a petroleum contaminated waste. Prior to soil removal a petroleum waste disposal permit should be obtained. Soil excavation and transportation to an appropriate landfill facility should be completed by properly trained personnel.

It is the interpretation of SIECO that knowledge of petroleum contamination at this site requires reporting to the IDEM for possible remediation of soil. It is likely that this incident would belong under the jurisdiction of the Emergency Response Branch of IDEM. Cleanup goals for this section regarding petroleum or other organic contamination is background or non-detect levels. It is the responsibility of the Client to report the findings of this investigation to the IDEM. Arvin may wish to consult legal counsel regarding this issue.

If you have any questions please call Bruce Rape or myself at (812) 372 - 9911.

Sincerely

Peter Newell
Environmental Scientist



SIECO, INC. Engineers 629 Washington Street Columbus, Indiana 47201	FIGURE 1 PROJECT # 9831900 APPROXIMATE SCALE 1" = 22'	**HAND BORING LOCATIONS** **MILL AREA** **ARVIN EXHAUST** **FRANKLIN, INDIANA**

SHERRY LABORATORIES

SHERRY LABS/COL **TEST REPORT** **Work Order # 98-02-374**

Received: 02/19/98 **02/26/98 11:41:36**

ATTEN Jim McNulty
REPORT Sieco, Inc.
TO 629 Washington Street
P.O. Box 407
Columbus, IN 47202

Paul O Gerth
CERTIFIED BY

CONTACT PAUL

PREPARED Sherry Laboratories/Columbus
BY 629 Washington Street
Suite 300
Columbus, Indiana 47201
ATTEN Paul O. Gerth
PHONE (812) 375-0531 FAX 375-0731

CLIENT SIECOJ SAMPLES 7
COMPANY Sieco, Inc.
FACILITY 629 Washington Street
Columbus, IN 47201

Paul O. Gerth
Director
Certified by IN# C-03-02 Col IN# C-18-02 Mun IN# C-02-02 FtW
IN# M-3-2 Col IN# M-18-5 Mun

WORK ID Arvin
TAKEN 2/19/98
TRANS Hand
TYPE Soil
P.O. #
INVOICE under separate cover

SAMPLE IDENTIFICATION

01 B1-A
02 B2-A
03 B2-B
04 B3-B
05 B4-B
06 B5-B
07 B5-C

TEST CODES and NAMES used on this workorder

TPHFID TPH analysis by GC FID

TOTAL PAGES OF THIS REPORT : 8

SHERRY LABORATORIES

Page 2 LAB I.D. **9802374-01A** DATE REPORTED: **02/26/98**

SAMPLE DESCRIPTION **B1-A**
DATE COLLECTED: **02/19/98 08:45**

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as Oil	SF	02/23/98	SW846-8015M	500 ppm	**10800ppm**

SHERRY LABORATORIES

Page 3 LAB I.D. **9802374-02A** DATE REPORTED: **02/26/98**

SAMPLE DESCRIPTION **B2-A**
DATE COLLECTED: **02/19/98 09:10**

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as Oil	SF	02/23/98	SW846-8015M	500 ppm	**6240 ppm**

SHERRY LABORATORIES

Page 4 LAB I.D. 9802374-03A DATE REPORTED: 02/26/98

SAMPLE DESCRIPTION B2-B

DATE COLLECTED: 02/19/98 09:20

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as California	SF	02/23/98	SW846-8015M	10 ppm	ND

SHERRY LABORATORIES

Page 5 LAB I.D. 9802374-04A DATE REPORTED: 02/26/98

SAMPLE DESCRIPTION B3-B

DATE COLLECTED: 02/19/98 10:20

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as California	SF	02/23/98	SW846-8015M	10 ppm	ND

SHERRY LABORATORIES

Page 6 LAB I.D. **9802374-05A** DATE REPORTED: **02/26/98**

SAMPLE DESCRIPTION **B4-B**

DATE COLLECTED: **02/19/98 10:50**

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as Oil	SF	02/24/98	SW846-8015M	500 ppm	**29160ppm**

SHERRY LABORATORIES

Page 7 LAB I.D. 9802374-06A DATE REPORTED: 02/26/98

SAMPLE DESCRIPTION B5-B

DATE COLLECTED: 02/19/98 11:10

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as California	SF	02/24/98	SW846-8015M	10 ppm	ND

SHERRY LABORATORIES

Page 8 LAB I.D. **9802374-07A** DATE REPORTED: **02/26/98**

SAMPLE DESCRIPTION **B5-C**
DATE COLLECTED: **02/19/98 11:20**

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
TPH 8015M as California	SF	02/24/98	SW846-8015M	10 ppm	ND

SHERRY LABORATORIES

☐ 629 Washington St., Suite 300
COLUMBUS IN 47201
812-375-0531
Fax 812-375-0731

☐ 5738 Industrial Rd.
FORT WAYNE IN 46825
219-471-7000
Fax 219-471-7777

☐ 2203 S. Madison St.
MUNCIE IN 47302
765-747-9000 / 800-874-3563
Fax 765-747-0228

☐ 316 Mecca Dr.
LAFAYETTE LA 70508
318-235-0483 / 800-737-2378
Fax 318-233-6540

☐ 10835 E. Independence, Suite 102
TULSA OK 74116
918-234-7111 / 800-324-5757
Fax 918-234-7152

Page _____ of _____

Chain of Custody Record

Laboratory Number

Client Name: Shell

Contact Name:

Phone / Fax:

Project Name: Avon

Project #:

Sampler's Signature:

Collection Date	Collection Time	Grab	Comp	Sample Identification / Description	Preservative	Number / Type of Container	Matrix Code	Tests Requested	Comments / Remarks
2-19	8:45			B1 - A	ICE	1 / G	SO	✓	
"	9:10			B2 - A				✓	
	9:20			B2 - B				-	
	10:20			B3 - B				✓	
	10:50			B4 B				-	
	11:10			B5 - B				✓	
	11:20			B5 C				✓	

UPS / FedEx
Airborne / Sherry
Hand / Mail

All samples submitted to Sherry Laboratories for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Sherry Laboratories reserves the right to return unused sample portions.

P.O. Number

Relinquished by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
		2-19-98	11:15				
Relinquished by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Received by Laboratory: (Signature)	Date	Time

Matrix Codes
DW = Drinking Water MW = Monitoring Well
WW = Waste Water W = Water SL = Sludge
SO = Soil O = Oil OT = Other

Container Types
G = Glass
P = Plastic

Shipping Conditions
☐ Iced
☐ Ambient

Which Regulations Apply
☐ RCRA ☐ Drinking Water ☐ NPDES
☐ POTW ☐ Other

Thank-you for using SHERRY LABORATORIES
The Source for Metallurgical, Materials, & Environmental Testing Services

11/97

Part 1 - Laboratory Copy Part 2 - Report Copy Part 3 - Client's Temporary Copy

PART 2

SHERRY LABORATORIES

Page 1 **SHERRY LABS/COL** **TEST REPORT** **Work Order # 98-01-043**

Received: 01/06/98 **01/07/98 16:49:30**

ATTEN Dan Boucher
REPORT Arvin Industries
TO 1001 N. Hurricane
Franklin, IN 46131

CERTIFIED BY

PREPARED BY Sherry Laboratories/Columbus
629 Washington Street
Suite 300
Columbus, Indiana 47201
ATTEN Paul O. Gerth
PHONE (812) 375-0531 FAX 375-0731

CONTACT PAUL

CLIENT ARVIN FRANKL SAMPLES 1
COMPANY Arvin Industries
FACILITY 1001 N. Hurricane
Franklin, IN 46131

Paul O. Gerth
Director
Certified by IN# C-03-02 Col IN# C-18-02 Mun IN# C-02-02 FtW
IN# M-3-2 Col IN# M-18-5 Mun

WORK ID FPO Dirt (Reloq)
TAKEN 12/12/97
TRANS Sherry
TYPE Soil
P.O. #
INVOICE under separate cover

SAMPLE IDENTIFICATION

01 FPO Dirt

TEST CODES and NAMES used on this workorder

TPH418 TPH analysis-IR Method

TOTAL PAGES OF THIS REPORT : 2

SHERRY LABORATORIES

Page 2 LAB I.D. 9801043-01A DATE REPORTED: 01/07/98

SAMPLE DESCRIPTION FPO Dirt

DATE COLLECTED: 12/12/98 10:45

Paul O. Gerth
Director

Analyte	Analyst Initials	Date Analyzed	Reference Method	Detection Limit	Concentration (ppm)
Tot. Petroleum Hydrocarbon	BVD	01/07/98	EPA 418.1	1 ppm	72

SHERRY LABS/COL INVOICE

INVOICED 01/07/98

INVOICE # Cot set

LAB ID # 98-01-043

INVOICE Arvin Industries
TO 1001 N. Hurricane
Franklin, IN 46131

TERMS Net 30

THANK YOU FOR YOUR BUSINESS

REMIT Sherry Laboratories
TO P.O. Box 2847
Muncie, Indiana 47307-0847

ATTEN Dan Boucher

ATTEN Accounts Receivable
PHONE (800) 874-3563

WORK ID FPO Dirt (Reloq)
P.O. # _____

(not set)
#361

REPORT Arvin Industries
TO 1001 N. Hurricane
Franklin, IN 46131

ATTEN Dan Boucher

RECEIVED 01/06/98 CLIENT ARVIN FRANKL
REPORTED 01/07/98 PROJECT _____

	ID	CODE	DESCRIPTION	REMARK	PRICE	QTY	DISCOUNT	AMOUNT
TESTS		TPH418	TPH analysis-IR Method		60.00	1		60.00

SUBTOTAL $60.00

TOTAL INVOICE AMOUNT $60.00

SHERRY LABORATORIES

relog 980043-1A

629 Washington St., Suite 300 · COLUMBUS IN 47201 · 812-375-0531 · Fax 812-375-0731

☐ 5738 Industrial Rd. · FORT WAYNE IN 46825 · 219-471-7000 · Fax 219-471-7777

☐ 2203 S. Madison St. · MUNCIE IN 47302 · 317-747-9000/800-874-3563 · Fax 317-747-0228

☐ 31 Mecca Dr. · LAFAYETTE LA 70508 · 318-235-0483/800-737-2378 · Fax 318-233-6540

☐ 10835 E. Independence, Suite 102 · TULSA OK 74116 · 918-234-7111/800-324-5757 · Fax 918-234-7152

Page 1 of 1

Chain of Custody Record

Laboratory Number: ~~[illegible]~~

Client Name: Arvin

Contact Name:

Phone/Fax:

Project Name: FPO

Project #: Dirt

Sampler's Signature: [signature]

Collection Date	Collection Time	Grab	Comp	Sample Identification/Description	Preservative	Number/Type of Container	Matrix Code	Tests Requested: TPH418									Comments/Remarks
12-12-97	1045	✓		FPO Dirt		2 GL	SO	✓									
																	UPS/FedEx Airborne/Sherry Hand/Mail

All samples submitted to Sherry Laboratories for analysis are accepted on a custodial basis only. Ownership of the material remains with the client submitting the samples. Sherry Laboratories reserves the right to return unused sample portions.

P.O. Number:

Relinquished by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Received by: (Signature)	Date	Time
[signature]	[signature]	12-12-97	1047				
Relinquished by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)	Received by Laboratory: (Signature)	Date	Time
[signature]	[signature]	12-12-97	1137				

Matrix Codes: DW = Drinking Water, WW = Waste Water, MW = Monitoring Well, W = Water, SL = Sludge, O = Oil, OT = Other

Container Types: G = Glass, P = Plastic

Shipping Conditions: ☐ Iced ☐ Ambient

Which Regulations Apply: ☐ RCRA ☐ POTW ☐ Drinking Water ☐ Other ☐ NPDES

Thank-you for using SHERRY LABORATORIES
The Source for Metallurgical, Materials, & Environmental Testing Services

Part 1 - Laboratory Copy Part 2 - Report Copy Part 3 - Client's Temporary Copy

PART 1

TestAmerica
INCORPORATED

ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the TestAmerica, Inc. Indianapolis Division.
Project Description: ARVIN

Sample Number	Sample Description	Date Taken	Time Taken	Date Received
271042	1 NORTH WALL	07/19/2000	10:00	07/20/2000
271043	2 WEST WALL	07/19/2000	10:00	07/20/2000
271044	3 SOUTH WALL	07/19/2000	10:00	07/20/2000
271045	4 EAST WALL	07/19/2000	10:00	07/20/2000
271046	NORTH END BASE	07/19/2000	10:00	07/20/2000

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

TestAmerica Incorporated-Indianapolis Division is in compliance with the National Environmental Laboratory Accreditation Program (NELAP) Standards.

Project Representative

6964 Hillsdale Court / Indianapolis, IN 46250 / 317-842-4261 / Fax: 317-842-4286 / 800-485-0204

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Client Project ID: ARVIN

Analyte	Wet Wt. Result	Flag	Units	Reporting Limit	Date/Time Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 271042	**SAMPLE DESCRIPTION 1 NORTH WALL**								**DATE-TIME TAKEN 07/19/2000 10:00**
TPH - GC/FID Volatile (NONAQ)	<20.		mg/kg	<20.	07/22/2000 04:39	tvs		1700	SW 8015B
TPH - GC SemiVolatile (NON-AQ)	410	o, d1x2	mg/kg	<20.	07/21/2000 20:07	tvs	651	1541	SW 8015B
TPH Extraction-Nonaqueous	Complete			Complete	07/20/2000 14:00	ceg	651		SW 8015M
SAMPLE NO. 271043	**SAMPLE DESCRIPTION 2 WEST WALL**								**DATE-TIME TAKEN 07/19/2000 10:00**
TPH - GC/FID Volatile (NONAQ)	<20.		mg/kg	<20.	07/22/2000 07:47	tvs		1700	SW 8015B
TPH - GC SemiVolatile (NON-AQ)	270	a+o,d1x2	mg/kg	<20.	07/21/2000 21:00	tvs	651	1541	SW 8015B
TPH Extraction-Nonaqueous	Complete			Complete	07/20/2000 14:00	ceg	651		SW 8015M
SAMPLE NO. 271044	**SAMPLE DESCRIPTION 3 SOUTH WALL**								**DATE-TIME TAKEN 07/19/2000 10:00**
TPH - GC/FID Volatile (NONAQ)	<20.		mg/kg	<20.	07/22/2000 08:34	tvs		1700	SW 8015B
TPH - GC SemiVolatile (NON-AQ)	2,200	o, d1x20	mg/kg	<20.	07/21/2000 21:52	tvs	651	1541	SW 8015B
TPH Extraction-Nonaqueous	Complete			Complete	07/20/2000 14:00	ceg	651		SW 8015M

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Client Project ID: ARVIN

Analyte	Wet Wt. Result	Flag	Units	Reporting Limit	Date/Time Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 271045 SAMPLE DESCRIPTION 4 EAST WALL DATE-TIME TAKEN 07/19/2000 10:00									
TPH - GC/FID Volatile (NONAQ)	<20.		mg/kg	<20.	07/22/2000 09:21	tvs		1700	SW 8015B
TPH - GC SemiVolatile (NON-AQ)	470	o, d1x5	mg/kg	<20.	07/21/2000 22:45	tvs	651	1541	SW 8015B
TPH Extraction-Nonaqueous	Complete			Complete	07/20/2000 14:00	ceg	651		SW 8015M
SAMPLE NO. 271046 SAMPLE DESCRIPTION NORTH END BASE DATE-TIME TAKEN 07/19/2000 10:00									
Paint Filter	No Free Liqu				07/24/2000 10:20	cdk		492	SW 9095
ICP METALS - TCLP	complete			complete	07/25/2000 08:15	out		1123	
TCLP Metals Digest - ICP	Complete			Complete	07/25/2000 00:00	out	1045		SW 3010
Mercury-TCLP digestion	Complete			Complete	07/25/2000 11:30	sat	65		
Ignitability (Flash Point)	>200		Degree F	>200.	07/21/2000 11:15	sld		776	SW 1010
TCLP - Arsenic	<0.50		mg/L	<0.50	07/25/2000 08:15	out	1045	1090	SW 6010
TCLP - Barium	1.2		mg/L	<0.50	07/25/2000 08:15	out	1045	1130	SW 6010
TCLP - Cadmium	<0.10		mg/L	<0.010	07/25/2000 08:15	out	1045	1129	SW 6010
TCLP - Chromium	<0.50		mg/L	<0.010	07/25/2000 08:15	out	1045	1135	SW 6010
TCLP - Lead	<0.50		mg/L	<0.080	07/25/2000 08:15	out	1045	1107	SW 6010
TCLP - Mercury	<0.005		mg/L	<0.005	07/25/2000 15:05	sat	65	789	SW 7470
TCLP - Selenium	<0.20		mg/L	<0.20	07/25/2000 08:15	out	1045	1123	SW 6010
TCLP - Silver	<0.10		mg/L	<0.10	07/25/2000 08:15	out	1045	1112	SW 6010
TCLP Extraction	Complete			Complete	07/20/2000 15:00	sat	1462		SW 1311
PCBs - NONAQUEOUS S-8082									
PCB-1016	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Client Project ID: ARVIN

Analyte	Wet Wt. Result	Flag	Units	Reporting Limit	Date/Time Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 271046	SAMPLE DESCRIPTION NORTH END BASE								DATE-TIME TAKEN 07/19/2000 10:00
PCB-1221	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082
PCB-1232	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082
PCB-1242	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082
PCB-1248	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082
PCB-1254	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082
PCB-1260	<1.0		mg/kg	<1.0	07/24/2000 20:35	jas	513	657	SW 8082
Surrogate	105.		%		07/24/2000 20:35	jas	513	657	SW 8082
PCB extraction (non-aqueous)	Complete			Complete	07/24/2000 11:30	tld	513		SW 3540

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

The following samples were submitted to TestAmerica, Inc. Indianapolis Division for analysis:

Project Description: ARVIN

Sample Number	Sample Description	Date Taken	Time Taken	Date Received
271042	1 NORTH WALL	07/19/2000	10:00	07/20/2000
271043	2 WEST WALL	07/19/2000	10:00	07/20/2000
271044	3 SOUTH WALL	07/19/2000	10:00	07/20/2000
271045	4 EAST WALL	07/19/2000	10:00	07/20/2000
271046	NORTH END BASE	07/19/2000	10:00	07/20/2000

Approved by:

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
TCLP - Mercury		789	0.0075	0.00763	102		07/25/2000
PCBs - NONAQUEOUS S-8082							
PCB-1016		657	0.250	0.218	87		07/24/2000
PCB-1016		657	0.250	0.239	96		07/24/2000
PCB-1260		657	0.250	0.230	92		07/24/2000
PCB-1260		657	0.250	0.220	88		07/24/2000
TPH - GC/FID Volatile (NONAQ)		1700	50.	52.8	106		07/21/2000
TPH - GC/FID Volatile (NONAQ)		1700	50.	49.3	99		07/22/2000
TPH - GC/FID Volatile (NONAQ)		1700	50.	43.8	88		07/22/2000
TPH - GC SemiVolatile (NON-AQ)		1541	500	459	92	a	07/21/2000
TPH - GC SemiVolatile (NON-AQ)		1541	500	461	92	o	07/21/2000
TPH - GC SemiVolatile (NON-AQ)		1541	500	466	93	a	07/22/2000
TPH - GC SemiVolatile (NON-AQ)		1541	500	478	96	o	07/22/2000

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT
BLANKS

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Reporting Limit	Date Analyzed
TCLP - Arsenic	1045	1090	<0.50		mg/L	<0.50	07/25/2000
TCLP - Barium	1045	1130	<1.00		mg/L	<0.50	07/25/2000
TCLP - Cadmium	1045	1129	<0.100		mg/L	<0.010	07/25/2000
TCLP - Chromium	1045	1135	<0.500		mg/L	<0.010	07/25/2000
TCLP - Lead	1045	1107	<0.500		mg/L	<0.080	07/25/2000
TCLP - Mercury	65	789	<0.005		mg/L	<0.005	07/25/2000
TCLP - Selenium	1045	1123	<0.20		mg/L	<0.20	07/25/2000
TCLP - Silver	1045	1112	<0.10		mg/L	<0.10	07/25/2000
PCBs - NONAQUEOUS S-8082							
PCB-1016	513	657	<1.0		mg/kg	<1.0	07/24/2000
PCB-1221	513	657	<1.0		mg/kg	<1.0	07/24/2000
PCB-1232	513	657	<1.0		mg/kg	<1.0	07/24/2000
PCB-1242	513	657	<1.0		mg/kg	<1.0	07/24/2000
PCB-1248	513	657	<1.0		mg/kg	<1.0	07/24/2000
PCB-1254	513	657	<1.0		mg/kg	<1.0	07/24/2000
PCB-1260	513	657	<1.0		mg/kg	<1.0	07/24/2000
Surrogate	513	657	91		%		07/24/2000
TPH - GC/FID Volatile (NONAQ)		1700	<20		mg/kg	<20.	07/21/2000
TPH - GC SemiVolatile (NON-AQ)	651	1540	<20		mg/kg	<20.	07/19/2000
TPH - GC SemiVolatile (NON-AQ)	651	1543	<20		mg/kg	<20.	07/24/2000
TPH - GC SemiVolatile (NON-AQ)	651	1544	<20		mg/kg	<20.	07/25/2000

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	LCS Conc Found	LCS % Rec.	LCS Dup. Conc Found	LCS Dup. % Rec.	RPD	Flag	Date Analyzed
Ignitability (Flash Point)		776	81	81	100					07/21/2000
TCLP - Arsenic	1045	1090	1.000	1.12	112					07/25/2000
TCLP - Barium	1045	1130	10.00	10.3	103					07/25/2000
TCLP - Cadmium	1045	1129	1.000	1.16	116					07/25/2000
TCLP - Chromium	1045	1135	5.000	5.18	104					07/25/2000
TCLP - Lead	1045	1107	5.000	5.21	104					07/25/2000
TCLP - Mercury	65	789	0.005	0.00578	116					07/25/2000
TCLP - Selenium	1045	1123	1.000	1.13	113					07/25/2000
TCLP - Silver	1045	1112	1.000	0.973	97					07/25/2000
PCBs - NONAQUEOUS S-8082										
PCB-1016	513	657	2.50	2.26	90					07/24/2000
PCB-1260	513	657	2.50	2.21	88					07/24/2000
Surrogate	513	657	0.50	0.426	85					07/24/2000
TPH - GC/FID Volatile (NON		1700	50.	60.6	121	61.8	124	2		07/21/2000
TPH - GC SemiVolatile (NON	651	1540	214	273	128					07/19/2000
TPH - GC SemiVolatile (NON	651	1541	214	218	102					07/21/2000
TPH - GC SemiVolatile (NON	651	1544	214	255	119					07/25/2000

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
5232 W. 79th St.
Indianapolis, IN 46268

07/26/2000

Job Number: 00.03679

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Sample Result	Conc. MS Result	MS % Rec.	Conc. MSD Result	MSD % Rec.	RPD	Flag	Date Analyzed	Sample Spiked
TCLP - Mercury	65	789	0.050	<0.005	0.0580	116	0.0574	115	1		07/25/2000	271046
TCLP - Mercury	65	789	0.050	<0.005	0.0579	116	0.0591	118	2.1		07/25/2000	271232
PCBs - NONAQUEOUS S-808												271232
PCB-1016	513	657	2.50	<1.0	2.36	94	2.19	88	7.5		07/24/2000	271232
PCB-1260	513	657	2.50	<1.0	2.23	89	1.94	78	14		07/24/2000	271232
TPH - GC/FID Volatile (N		1700	49.3	<20.	61.1	124	58.8	119	3.8		07/21/2000	270751
TPH - GC SemiVolatile (N	651	1540	213	52	269	102	264	100	1.9		07/20/2000	270876

TestAmerica
INCORPORATED

PROJECT NARRATIVE

JOB NUMBER: 00.03679

SAMPLE: Blank

ANALYSIS: PCBs

Blank was spiked twice with surrogate. Surrogate recovery for blank calculated based on double spike. JAS

KEY TO ABBREVIATIONS

<	Less than; when appearing in the result column, indicates analyte not detected at or above the Reporting Limit.
%	Percent; To convert ppm to %, divide result by 10,000. To convert % to ppm, multiply the result by 10,000.
*	Indicates the Reporting Limit is elevated due to insufficient sample volume.
mg/L	Part per million; Concentration in units of milligrams of analyte per Liter of aqueous sample.
ug/L	Part per billion; Concentration in units of micrograms of analyte per Liter of aqueous sample.
mg/kg	Part per million; Concentration in units of milligrams of analyte per kilogram of non-aqueous sample.
ug/kg	Part per billion; Concentration in units of micrograms of analyte per kilogram of non-aqueous sample.
a	Indicates the sample concentration was quantitated using a diesel fuel standard.
b	Indicates the analyte of interest was also found in the method blank.
c	Sample resembles unknown Hydrocarbon.
dw	When indicated, the result is reported on a dry weight basis. The contribution of the moisture content in the sample has been subtracted when calculating the concentration.
d1	Indicates the analyte has elevated Reporting Limit due to high concentration.
d2	Indicates the analyte has elevated Reporting Limit due to matrix.
e	Indicates the reported concentration is estimated.
g	Indicates the sample concentration was quantitated using a gasoline standard.
h	Indicates the sample was analyzed past recommended holding time.
i	Insufficient spike concentration due to high analyte concentration in the sample.
j	Indicates the reported concentration is below the Reporting Limit.
k	Indicates the sample concentration was quantitated using a kerosene standard.
l	Indicates an MS/MSD was not analyzed due to insufficient sample. An LCS / LCS Duplicate provided for precision.
m	Indicates the sample concentration was quantitated using a mineral spirits standard.
o	Indicates the sample concentration was quantitated using a motor oil standard.
p	Indicates the sample was post spiked due to sample matrix.
q	Indicates MS/MSD exceeded control limits. The associated sample may exhibit similar matrix bias. All other quality control indicators are in control.
r	Indicates the sample was received past recommended holding time.
u	Indicates the sample was received improperly preserved and/or improperly contained.
uj	Indicates the result is below the Reporting Limit and is considered estimated.
z	Indicates the BOD dilution water blank depletion was between 0.2 and 0.5 mg/L.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
4910 W. 86th St.
Indianapolis, IN 46268

08/04/2000

Job Number: 00.03892

Enclosed are the Analytical Results for the following samples submitted to TestAmerica, Inc. Indianapolis Division for analysis:

Project Description: ARVIN

Sample Number	Sample Description	Date Taken	Date Received
271812	6N	07/28/2000	07/31/2000
271813	6S	07/28/2000	07/31/2000
271814	6E	07/28/2000	07/31/2000
271815	6W	07/28/2000	07/31/2000

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Project Representative

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Tim Christopher
ECOLOGICAL SYSTEMS, INC.
4910 W. 86th St.
Indianapolis, IN 46268

08/04/2000

Job No.: 00.03892

Date Received: 07/31/2000
Job Description: ARVIN

Sample Number / Sample I.D. Parameters	Wet Wt. Result	Flag	Sample Date/ Units	Analyst Date & Time Analyzed	Method	Reporting Limit
271812 6N			07/28/2000			
TPH - GC SemiVolatile (NON-AQ) TPH Extraction-Nonaqueous	1,400 Complete	oid1x100	mg/kg	tvs 08/04/2000 09:55 ceg 08/01/2000 13:00	SW 8015B SW 8015M	<20. Complete
271813 6S			07/28/2000			
TPH - GC SemiVolatile (NON-AQ) TPH Extraction-Nonaqueous	130 Complete	o	mg/kg	tvs 08/04/2000 10:48 ceg 08/01/2000 13:00	SW 8015B SW 8015M	<20. Complete
271814 6E			07/28/2000			
TPH - GC SemiVolatile (NON-AQ) TPH Extraction-Nonaqueous	13,000 Complete	o,d1x100	mg/kg	tvs 08/04/2000 07:16 ceg 08/01/2000 13:00	SW 8015B SW 8015M	<20. Complete
271815 6W			07/28/2000			
TPH - GC SemiVolatile (NON-AQ) TPH Extraction-Nonaqueous	10,000 Complete	o,d1x100	mg/kg	tvs 08/04/2000 08:09 ceg 08/01/2000 13:00	SW 8015B SW 8015M	<20. Complete

KEY TO ABBREVIATIONS

<	Less than; when appearing in the result column, indicates analyte not detected at or above the Reporting Limit.
%	Percent; To convert ppm to %, divide result by 10,000. To convert % to ppm, multiply the result by 10,000.
*	Indicates the Reporting Limit is elevated due to insufficient sample volume.
mg/L	Part per million; Concentration in units of milligrams of analyte per Liter of aqueous sample.
ug/L	Part per billion; Concentration in units of micrograms of analyte per Liter of aqueous sample.
mg/kg	Part per million; Concentration in units of milligrams of analyte per kilogram of non-aqueous sample.
ug/kg	Part per billion; Concentration in units of micrograms of analyte per kilogram of non-aqueous sample.
a	Indicates the sample concentration was quantitated using a diesel fuel standard.
b	Indicates the analyte of interest was also found in the method blank.
c	Sample resembles unknown Hydrocarbon.
dw	When indicated, the result is reported on a dry weight basis. The contribution of the moisture content in the sample has been subtracted when calculating the concentration.
d1	Indicates the analyte has elevated Reporting Limit due to high concentration.
d2	Indicates the analyte has elevated Reporting Limit due to matrix.
e	Indicates the reported concentration is estimated.
g	Indicates the sample concentration was quantitated using a gasoline standard.
h	Indicates the sample was analyzed past recommended holding time.
i	Insufficient spike concentration due to high analyte concentration in the sample.
j	Indicates the reported concentration is below the Reporting Limit.
k	Indicates the sample concentration was quantitated using a kerosene standard.
l	Indicates an MS/MSD was not analyzed due to insufficient sample. An LCS / LCS Duplicate provided for precision.
m	Indicates the sample concentration was quantitated using a mineral spirits standard.
o	Indicates the sample concentration was quantitated using a motor oil standard.
p	Indicates the sample was post spiked due to sample matrix.
q	Indicates MS/MSD exceeded control limits. The associated sample may exhibit similar matrix bias. All other quality control indicators are in control.
r	Indicates the sample was received past recommended holding time.
u	Indicates the sample was received improperly preserved and/or improperly contained.
uj	Indicates the result is below the Reporting Limit and is considered estimated.
z	Indicates the BOD dilution water blank depletion was between 0.2 and 0.5 mg/L.

South Side Landfill, Inc.
2561 Kentucky Ave.
Indianapolis, IN 46221
Phone (317) 247-6808
FAX (317) 247-7034

INTERNAL CONTROL NUMBER

538927

TICKET NUMBER

20416560

BILL TO
ECOL856946
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

HAULER
ECOL856946
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	GROSS WEIGHT	TAR WEIGHT	NET WEIGHT
/28/2000	16:01		16:02	(	87200 LB) (Manually 43.64 T)	34420 LB) (	52860 LB) 26.43 T)

VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION
ECO1420	Rolloff 20		

QUANTITY	WC	DESCRIPTION/ORIGIN	UNITS	UNIT PRICE	AMOUNT
26.4300	16	SPECIAL WASTE MARION	TON 100.00%		

2019

certify, under oath or affirmation and subject to the penalty of perjury under IC 35-44-2-1, that the largest part of the solid waste was enerated in the above counties. I also certify that I am not depositing any hazardous waste or unlawful material to this facility as required by ie Indiana Department of Environmental Management and the Environmental Protection Agency.

DRIVER NAME

PRINT _____ SIGNATURE _____

DOCUMENT TOTAL

CUSTOMER COPY

South Side Landfill, Inc.
2561 Kentucky Ave.
Indianapolis, IN 46221
Phone (317) 247-6808
FAX (317) 247-7034

INTERNAL CONTROL NUME

538959

TICKET NUMBER

20416592

BILL TO
ECOL856946
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

HAULER
ECOL856946
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	GROSS WEIGHT	TAR WEIGHT	NET WEI
07/28/2000	19:09		19:10	(	92100 LB) (	43340 LB)(	48760 LB
					Manually		

VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION
ECO420	Rolloff 20		

QUANTITY	WC	DESCRIPTION/ORIGIN	UNITS	UNIT PRICE	AMO
24.3800	16	SPECIAL WASTE MARION	TON 100.00%		

#16

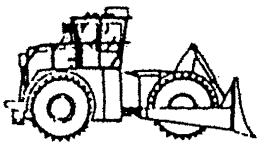
I certify, under oath or affirmation and subject to the penalty of perjury under IC 35-44-2-1, that the largest part of the solid waste was generated in the above counties. I also certify that I am not depositing any hazardous waste or unlawful material to this facility as required by the Indiana Department of Environmental Management and the Environmental Protection Agency.

DRIVER NAME

PRINT _____ SIGNATURE

DOCUMENT TOTAL

CUSTOMER COPY



South Side Landfill, Inc.
2561 Kentucky Ave.
Indianapolis, IN 46221
Phone (317) 247-6808
FAX (317) 247-7034

INTERNAL CONTROL NUMBER

538919

TICKET NUMBER

BILL TO
ECOL856946
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

HAULER
ECOL856946 20416550
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	GROSS WEIGHT	TAR WEIGHT	NET WEIGHT
/28/2000	15:31		15:31	(Manually	39040 LB) (	31980 LB)(	7060 LB)
					19.52 T) (		3.53 T)

VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION
ECO148	Rolloff	B	

QUANTITY	WC	DESCRIPTION/ORIGIN	UNITS	UNIT PRICE	AMOUNT
3.5300	16	SPECIAL WASTE MARION	TON 100.00%		

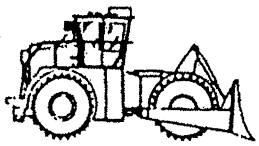
I certify, under oath or affirmation and subject to the penalty of perjury under IC 35-44-2-1, that the largest part of the solid waste was generated in the above counties. I also certify that I am not depositing any hazardous waste or unlawful material to this facility as required by the Indiana Department of Environmental Management and the Environmental Protection Agency.

DRIVER NAME

PRINT _____ SIGNATURE _____

DOCUMENT TOTAL

CUSTOMER COPY



South Side Landfill, Inc.
2561 Kentucky Ave.
Indianapolis, IN 46221
Phone (317) 247-6808
FAX (317) 247-7034

INTERNAL CONTROL NUMBER

538967

TICKET NUMBER

BILL TO:
ECOL856946
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

HAULER:
ECOL856946 20416600
ECOLOGICAL SYSTEMS, INC. (CSI)
ATTN: MIKE SCOTT
5430 W. 86TH ST.
INDIANAPOLIS IN 46268

DATE	ENTRY TIME	OPER.	EXIT TIME	OPER.	GROSS WEIGHT	TAR WEIGHT	NET WEIGHT
/28/2000	21:26		21:27	(Manually	75160 LB) (	34420 LB)(	40740 LB)
420750 Manually					37.58 T) (	17.21 T) (	20.37 T)

VEHICLE NUMBER	VEHICLE TYPE	PLATE NUMBER	TRANSACTION
ECO1420	Rolloff 20		

QUANTITY	WC	DESCRIPTION/ORIGIN	UNITS	UNIT PRICE	AMOUNT
20.3700	16	SPECIAL WASTE MARION	TON 100.00%		

I certify, under oath or affirmation and subject to the penalty of perjury under IC 35-44-2-1, that the largest part of the solid waste was generated in the above counties. I also certify that I am not depositing any hazardous waste or unlawful material to this facility as required by the Indiana Department of Environmental Management and the Environmental Protection Agency.

DRIVER NAME

PRINT _____ SIGNATURE _____

DOCUMENT TOTAL

CUSTOMER COPY

Special Waste Petroleum Disposal Notification

416520

GENERATOR INFORMATION

Company Name: Arvin Technical Contact: Tim Christopher (ES

Facility Address: 1001 Hurricane Street
Franklin, IN Telephone No.: 317-431-7496

WASTE INFORMATION

Waste Name: Oil contaminated soil Category (Circle One): A B
(per 329 IAC 10-8.1-4(a))

Verification No. (If Applicable): 072800P1 Certification No. (If Applicable):

Date spill, release, leak or clean-out occurred:

Location, including county where spill, release, leak, or clean-out occurred:

I hereby certify that the above information is true and accurate to the best of my knowledge.

JERRY KEAN 7-28-00
Signature (print or type) Date

ENVIRO COORDINATOR
Title

CLEAN-UP CONTRACTOR INFORMATION (if applicable)

Company Name: ESI Inc. Telephone No.: 317-874-0074

Facility Address: 5440 W. 79th St.
INDIANAPOLIS, IN

TRANSPORTER INFORMATION

Company Name: ESI Telephone No.: 317-471-1510

07-28-00
Driver's Signature Date

DISPOSAL SITE INFORMATION

Site Name: OPP No.: 49-1/N243 Volume/Weight: 26.9

7-28-00
Authorized Signature Date

(continued on back)

Disposal Facility Verification Notice

Landfill Information	Name of Landfill:	South Side Landfill, Inc.	Opp No. 49-1
	Location of Landfill:	2561 Kentucky Avenue Indianapolis, Indiana 46221	
	Telephone No:	(317)247-6808	

Generator	Arvin 1001 Hurricane Street Franklin, IN 46131	**Generator Location**	Arvin 1001 Hurricane Street Franklin, IN 46131

Telephone No:

Waste Name(s)	Volume/ Weight	Verification No.(s)
Oil Contaminated Soil	60 Cubic Yards	072800P1

(ATTACH ADDITIONAL SHEET IF NECESSARY)

Verification Notice

Special Waste

Verification Notice for this waste. I have determined that the waste described in this documentation is a special waste as defined in 329 IAC 10-2-179. This waste is not a hazardous waste as described in 40 CFR 261, nor is it any other type of unauthorized waste. The waste described in this documentation is acceptable for disposal at the above-named landfill. The request for verification of this waste is APPROVED". design , construction, and operating standards promulgated under 329 IAC 10-8.1-2(c), South Side Landfill has been given specific IDEM approval to accept certain special wastes, and these waste may be disposed into permitted areas containing a soil barrier within the slurry wall.

Signature	Scott Fitzgerald (TYPE OR PRINT NAME)	28-Jul-00 Date

Administrator
Title

Notice Of Request for Special Waste Non-Acceptance

I have Examined the analytical requirements and accompanied Special Waste Verification Notice for this waste. I have determined that the waste described in this documentation is NOT ACCEPTED for disposal at the above-named landfill for the reason(s) described below".

Signature	(TYPE OR PRINT NAME)	Date

Administrator
Title

Pursuant to Solid Waste Rule 329 IAC 10-28-21 (Facility responsibility for special waste disposal), 329 IAC 10-8.1-9 (The special waste certification process; generator responsibilities), 329 IAC 10-8.1-7(d) (The special waste verification process; generator responsibilities) and 329 IAC 10-8.1-13 (Petroleum-contaminated spill waste), all special waste delivered for disposal shall be accompanied by a disposal notification. Regulatory citations require generators to provide the disposal facility with a written disposal notification for each load of special waste to be disposed. The solid waste disposal facility shall check each load of special waste with the information provided on this form with the Special Waste Certification or the Special Waste Verification Notice. An original signature must appear on the disposal notification for the first load of the waste. The signature on the disposal notifications for subsequent loads of the same waste may be photocopied; however, those photocopied signatures will be considered to have the same authority as the original signature.

Please check the appropriate box (to be completed by Generator)

1. ☒ No changes have been made to any relevant raw material or to the waste generating process since the last shipment of waste.
2. ☐ The following change(s) to a relevant raw material or to the waste generating process has occurred since the last shipment of the waste.
   (describe change below) (attach additional sheet if necessary)

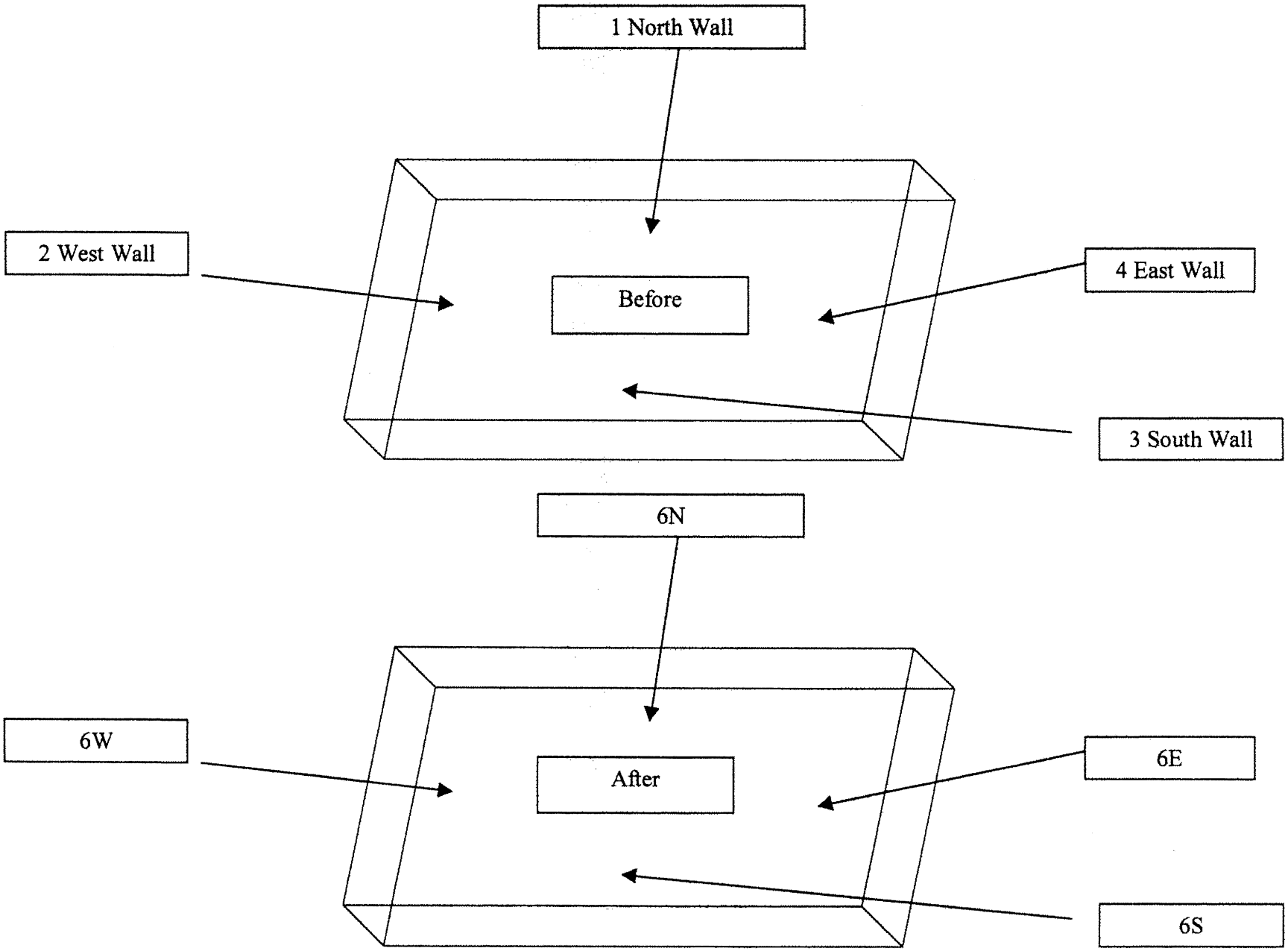
Please check the appropriate box (only applies if Box 2 is checked above)

- ☐ I have determined the change could not have led to a change in regulatory status; and I did not repeat the waste determination for this waste.
- ☐ I have repeated the waste determination and have determined this change did not cause a change in regulatory status.
- ☐ I have repeated the waste determination and have determined this change caused a change in the regulatory status of the waste. I have received from the owner, operator, or permittee of the MSWLF or non-MSWLF an updated verification notice that reflects the change in regulatory status.

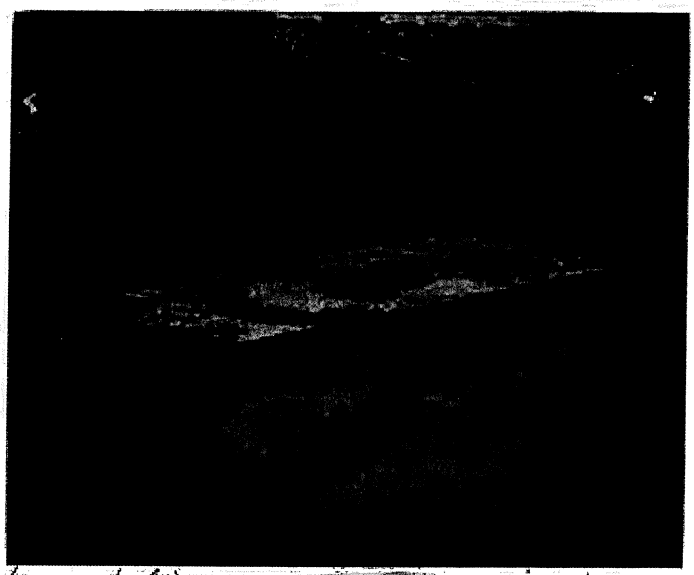
This form has been provided by IDEM for Generator use, and contains all regulatory requirements under 329 IAC 10-8.1-7 (d), (e) and 329 IAC 10-8.1-13.
Optional items have been included to assist the MSWLF and non-MSWLF in complying with 329 IAC 10-8.1-8.
Generators may use their own Special Waste Petroleum Disposal Notification, as long it complies with all regulatory requirements in the above mentioned citations.

Disposal Facilities may make corrections to this Disposal Notification ONLY in the Generator Information and Transporter Information areas. Such as, Generator Name, Transporter Name, Mailing Address, Telephone No., and Technical Contact.
Changes may also be make in the Certification No., Verification No., and Volume/Weight of the Waste Information Section.

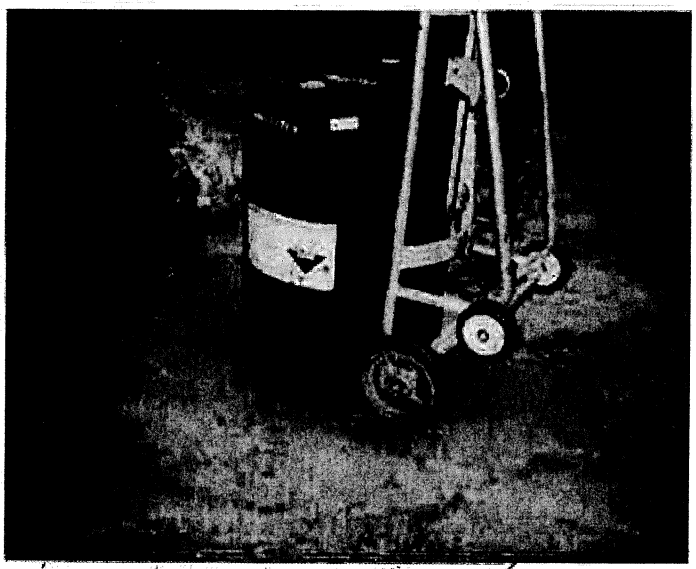
INFORMATION MUST HAVE BEEN PREVIOUSLY SUBMITTED BY GENERATOR NOT LEFT BLANK


1 North Wall
2 West Wall
Before
4 East Wall
3 South Wall
6N
6W
After
6E
6S

Franklin 11-26-99
Starting to slowly add Muriatic Acid - strong reaction

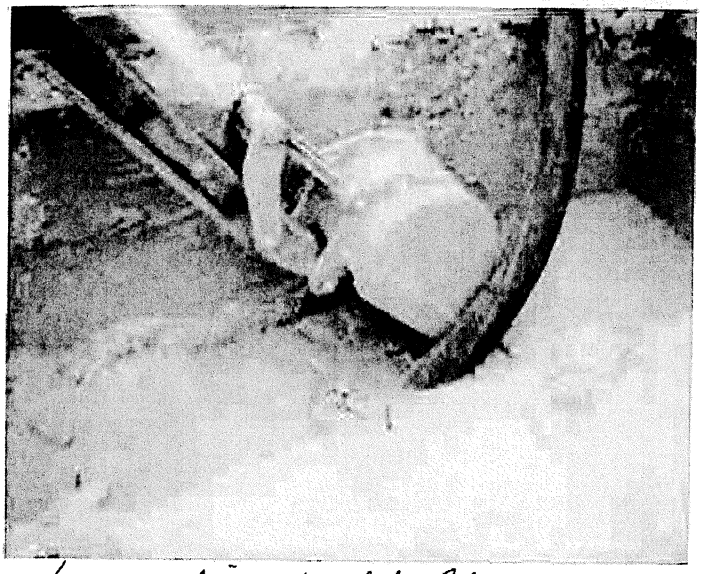


Franklin 11-26-99 Pit mixing. Approx 1/2 - 3/4" rain fell previous night - that mud/water standing on top of pit contents.

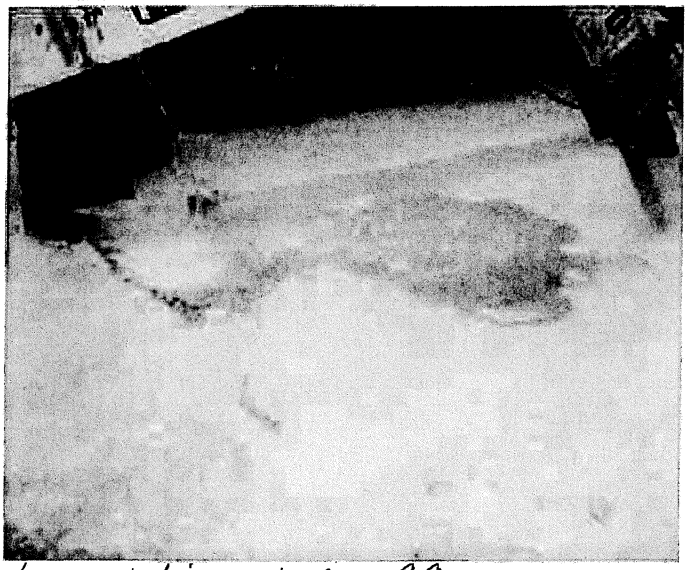


Franklin 11-26-99 Full 55-gal drum 30° baume Muriatic Acid lowered pH to only 11.6.

Franklin 11-26-99 Pit mixing begins - white material is Calcium Hydroxide



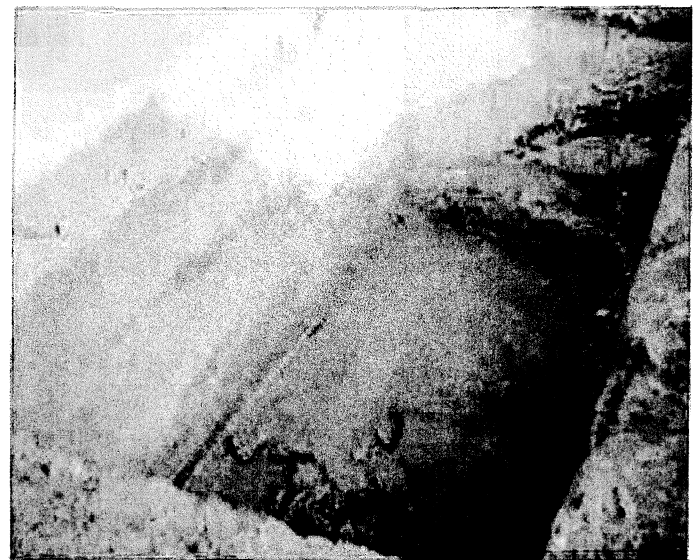
Franklin 11-26-99
Sucking out the pit. Chunks of concrete kept plugging 4" line



Franklin 11-26-99
More acid - eventually entire drum heat, bubbling + vapor

Franklin 11-26-99 Finally changed over to 6" hose - harder to handle but worked better

Franklin 11-26-99
The Casco "Super Sucker"



Franklin 11-26-99 - A very nice clean pit in good condition. Too bad it will be filled with stone & covered with concrete.

ACORD® CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YY) 02/18/98

PRODUCER

MCGOWAN INSURANCE GROUP, INC.
1850 Market Tower
10 West Market Street
Indianapolis IN 46204-2972

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

INSURED

Spill Recovery of Indiana, Inc.
P.O. Box 34337

Indianapolis IN 462340337

COMPANY A: COMMERCE & INDUSTRY INS.

COMPANY B: MONROE GUARANTY INSURANCE

COMPANY C:

COMPANY D:

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A	GENERAL LIABILITY	8194156	06/03/97	06/03/98	GENERAL AGGREGATE	$ 2,000,000
	[X] COMMERCIAL GENERAL LIABILITY				PRODUCTS - COMP/OP AGG	$ 2,000,000
	[ ] CLAIMS MADE [X] OCCUR				PERSONAL & ADV INJURY	$ 2,000,000
	[ ] OWNER'S & CONTRACTOR'S PROT				EACH OCCURRENCE	$ 2,000,000
	[X] CONTRACTOR POLLUTION LIAB				FIRE DAMAGE (Any one fire)	$ 50,000
					MED EXP (Any one person)	$ 5,000
A	AUTOMOBILE LIABILITY	CA5052721	06/03/97	06/03/98	COMBINED SINGLE LIMIT	$ 2,000,000
	[ ] ANY AUTO				BODILY INJURY (Per person)	$
	[ ] ALL OWNED AUTOS				BODILY INJURY (Per accident)	$
	[X] SCHEDULED AUTOS				PROPERTY DAMAGE	$
	[X] HIRED AUTOS					
	[X] NON-OWNED AUTOS					
	GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	$
	[ ] ANY AUTO				OTHER THAN AUTO ONLY:	
						$
						$
	EXCESS LIABILITY				EACH OCCURRENCE	$
	[ ] UMBRELLA FORM				AGGREGATE	$
	[ ] OTHER THAN UMBRELLA FORM					$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	MG 208723W-98	01/18/98	01/18/99	[X] WC STATUTORY LIMITS [ ] OTHER	
	THE PROPRIETOR/ PARTNERS/EXECUTIVE OFFICERS ARE: [X] INCL [ ] EXCL				EL EACH ACCIDENT	$ 500,000
					EL DISEASE - POLICY LIMIT	$ 500,000
					EL DISEASE - EA EMPLOYEE	$ 500,000
A	OTHER Professional Liability	8194156	06/03/97	06/03/98	Claims Made	2,000,000

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
Certificate Holder is Add'l Insured-Owners,Contractors,Lessee (CG 20 10)
$5,000 Combined Deductible applies to General Liability, Pollution Liability and Professional Liability

CERTIFICATE HOLDER

Arvin Industries
Attn: Tom Linneweber
1101 N. Hurricane
Franklin IN 46321

46131

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 15 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE
Sheila K. Frederick, CIC