

September 2, 2003

Ms. Lisa Buzzard
Innovative Injection Technologies, Inc.
2360 Grand Ave
West Des Moines IA 50265

Subject: Site Monitoring, Innovative Injection Technologies
2360 Grand Ave, West Des Moines, Iowa
Project EN301

Dear Ms. Buzzard:

This letter provides the results of the groundwater sampling for the above site.

BACKGROUND

The site is an operating plastic processing plant. A collection pit was used in the center of the building to collect fluids, mainly oils, from the process equipment. A boring near the pit indicated that the groundwater had been impacted with waste oil.

Four monitoring wells were installed on site to characterize potential impact and their locations are indicated in Figure 1. A Site Check Report dated January 23, 2003 indicated that waste oil had impacted the groundwater on site. This was reported to IDNR and they required that the pit be taken out of service and the groundwater sampled this summer and again in approximately six months.

FIELD SERVICES

The four wells were sampled on August 19, 2003, for diesel and waste oil components (total extractable hydrocarbons TEH) by Iowa Method OA-2. The samples were containerized, placed on ice and delivered via chain-of-custody procedures to TestAmerica Labs, Cedar Falls, Iowa. The report of analytical results and chain-of-custody are provided in this report.

GROUNDWATER

The wells were previously surveyed to a relative benchmark of the main building floor with an elevation of 100 feet assigned. Groundwater was measured in the wells to determine the flow direction. The groundwater flow direction based upon the four wells indicate a flow direction to the east.

FINDINGS

The following is a summary of the chemical analysis of the samples collected:

Sample Results TEH Waste Oil µg/l

Date	MW-1	MW-2	MW-3	MW-4
January 26, 2003	NS	774	<380	740
August 19, 2003	<380	<380	<380	<380

The groundwater action levels for TEH waste oil is 400 µg/l from the IAC Chapter 135, Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks. The TEH diesel results were below the method detection limit.

RECOMMENDATIONS

The analytical results indicate that the waste oil concentrations were below the method detection limits. The wells should be sampled in January 2004 and the results provided to IDNR.

GENERAL COMMENTS

The analysis and opinions expressed in this report are based upon data obtained from monitoring wells performed at indicated locations and from other information discussed in this report. This report does not reflect any variations in subsurface stratigraphy, geohydrology, and contaminant distribution, which may occur between borings or across the site. No other warranty, expressed or implied is made. A limited assessment of this scope cannot guarantee that the site is free of impact or that impact is not present below method detection limits or in areas not sampled.

If you have questions about this report please contact us. We appreciate the opportunity to be of assistance to you.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Lenz", written over the printed name.

Brian R. Lenz, CGP
President

e-mail: blenz@tecenv.com

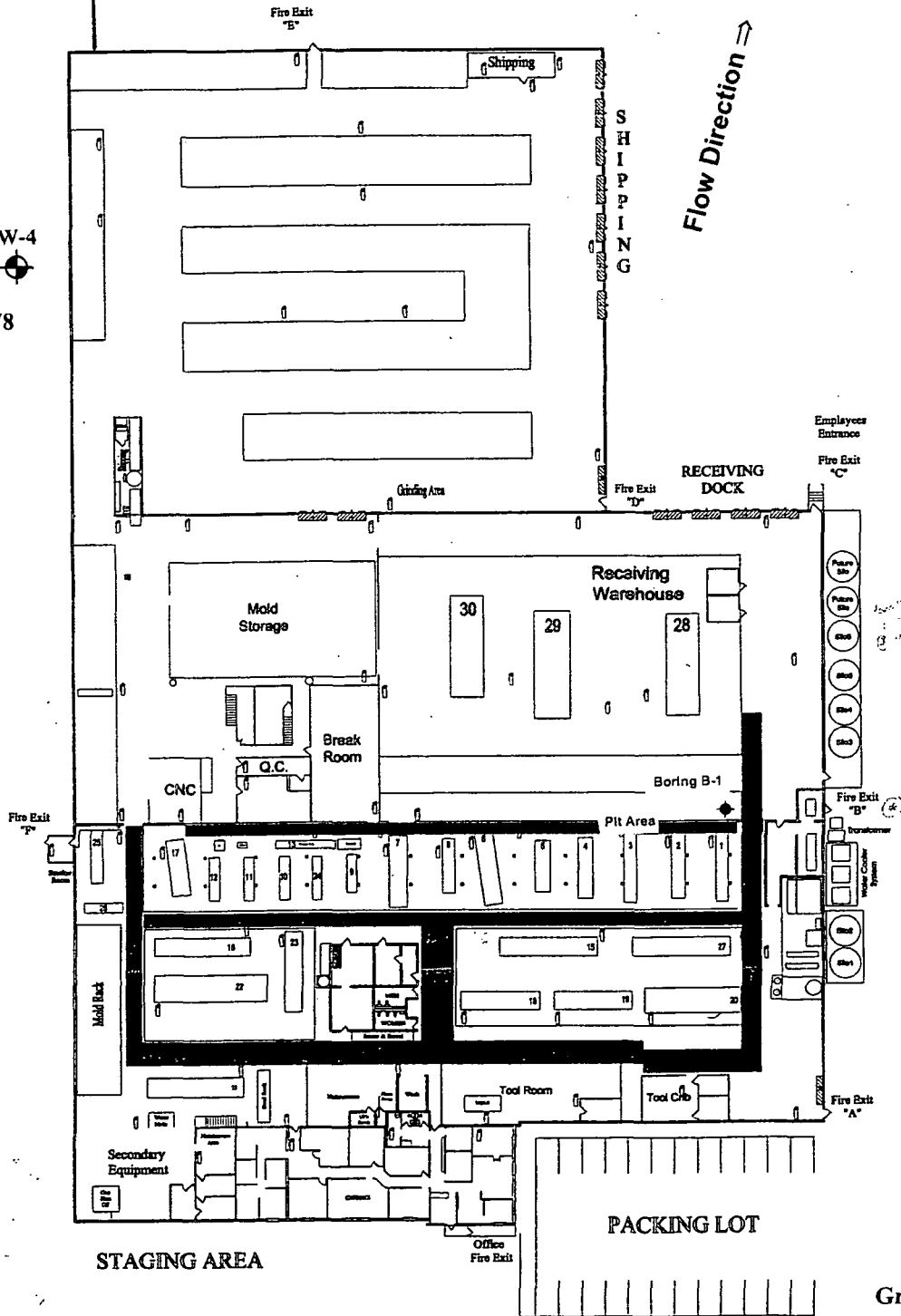
Enclosure

MW-3

59.78

MW-4

64.78



MW-2

64.42

MW-1

64.63

Groundwater Elevation

Grand Avenue

Lenz Environmental Inc.
4950 Pleasant St
West Des Moines, Iowa 50266

Lenz Project
EN301

Morton Custom Plastics
2360 Grand Ave
West Des Moines, Iowa

Figure 1
Site Diagram

ANALYTICAL REPORT

Brian Lenz
LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

515-221-3993

08/27/2003

Job Number: 03.10754

Sample Number: 752235

Collected by: Brian Lenz

Collectors Phone No.: 515-221-3993

Job Description: MORTON
WEST DES MOINES, IOWA

Date Taken: 08/19/2003

Sample ID: MW-1 EN301

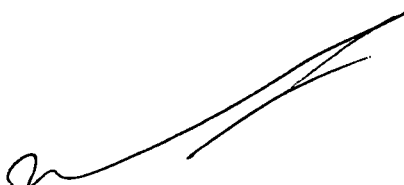
Date Received: 08/20/2003

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Flag</u>	<u>Analyst</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Quantitation Limit</u>	<u>Matrix</u>
Extraction Prep	COMPLETE			krb	08/21/2003	IOWA-0A2		WATER

EXTRACTABLE HYDROCARBONS-WATER

Total Extractable Hydrocarbons	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Diesel	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Gasoline	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Motor Oil	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER

All results are calculated on a wet weight basis.



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

ANALYTICAL REPORT

Brian Lenz
LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266
515-221-3993

08/27/2003

Job Number: 03.10754

Sample Number: 752236

Collected by: Brian Lenz

Collectors Phone No.: 515-221-3993

Job Description: MORTON

Date Taken: 08/19/2003

WEST DES MOINES, IOWA

Sample ID: MW-2 EN301

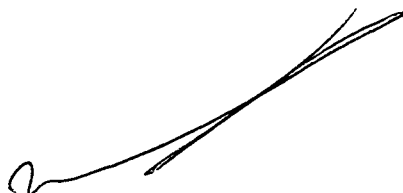
Date Received: 08/20/2003

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Flag</u>	<u>Analyst</u>	<u>Date</u>	<u>Method</u>	<u>Quantitation</u>	<u>Limit</u>	<u>Matrix</u>
Extraction Prep	COMPLETE			krb	08/21/2003	IOWA-OA2			WATER

EXTRACTABLE HYDROCARBONS-WATER

Total Extractable Hydrocarbons	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380		WATER
Diesel	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380		WATER
Gasoline	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380		WATER
Motor Oil	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380		WATER

All results are calculated on a wet weight basis.



R. L. Bindert
Operations Manager

IA UST LAB CERTIFICATION NO. 0007

ANALYTICAL REPORT

Brian Lenz
LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266
515-221-3993

08/27/2003

Job Number: 03.10754

Sample Number: 752237

Collected by: Brian Lenz

Collectors Phone No.: 515-221-3993

Job Description: MORTON
WEST DES MOINES, IOWA

Date Taken: 08/19/2003

Sample ID: MW-3 EN301

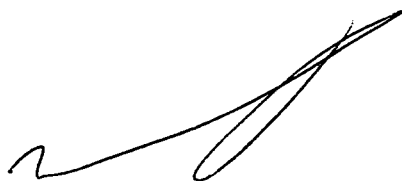
Date Received: 08/20/2003

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Flag</u>	<u>Analyst</u>	<u>Date</u> <u>Analyzed</u>	<u>Method</u>	<u>Quantitation</u> <u>Limit</u>	<u>Matrix</u>
Extraction Prep	COMPLETE			krb	08/21/2003	IOWA-OA2		WATER

EXTRACTABLE HYDROCARBONS-WATER

Total Extractable Hydrocarbons	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Diesel	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Gasoline	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Motor Oil	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER

All results are calculated on a wet weight basis.



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

ANALYTICAL REPORT

Brian Lenz
LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266
515-221-3993

08/27/2003

Job Number: 03.10754

Sample Number: 752238

Collected by: Brian Lenz

Collectors Phone No.: 515-221-3993

Job Description: MORTON

Date Taken: 08/19/2003

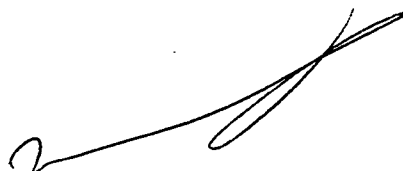
WEST DES MOINES, IOWA

Sample ID: MW-4 EN301

Date Received: 08/20/2003

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Flag</u>	<u>Analyst</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Quantitation Limit</u>	<u>Matrix</u>
Extraction Prep	COMPLETE			krb	08/21/2003	IOWA-OA2		WATER
EXTRACTABLE HYDROCARBONS-WATER								
Total Extractable Hydrocarbons	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Diesel	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Gasoline	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER
Motor Oil	<380	ug/L		amn	08/26/2003	IA-OA2/S-8015	380	WATER

All results are calculated on a wet weight basis.



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

QUALITY CONTROL REPORT

LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

08/27/2003

Job Number: 03.10754

Brian Lenz

Enclosed is the Quality Control data for the following samples submitted to TestAmerica, Inc. - Cedar Falls for analysis:

Sample Number	Sample Description	Date Taken	Date Received
752235	MW-1 EN301	08/19/2003	08/20/2003
752236	MW-2 EN301	08/19/2003	08/20/2003
752237	MW-3 EN301	08/19/2003	08/20/2003
752238	MW-4 EN301	08/19/2003	08/20/2003

This 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.

Iowa Laboratory Certification number - 7

QUALITY CONTROL REPORT

LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

08/27/2003

Brian Lenz

Job Number: 03.10754

Result	Units	Date Analyzed	Prep Batch Number	Run Batch Number	Analysis Method	Quantitation Limit
752235 MW-1 EN301 08/19/2003						
Extraction Prep	COMPLETE	08/21/2003	2325		IOWA-OA2	
EXTRACTABLE HYDROCARBONS-WATER						
Total Extractable Hydrocarbons	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Diesel	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Gasoline	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Motor Oil	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
N-Octacosane (Surr.)	91	%	08/26/2003	2325	4127	IA-OA2/S-8015 100
752236 MW-2 EN301 08/19/2003						
Extraction Prep	COMPLETE	08/21/2003	2325		IOWA-OA2	
EXTRACTABLE HYDROCARBONS-WATER						
Total Extractable Hydrocarbons	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Diesel	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Gasoline	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Motor Oil	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
N-Octacosane (Surr.)	93	%	08/26/2003	2325	4127	IA-OA2/S-8015 100
752237 MW-3 EN301 08/19/2003						
Extraction Prep	COMPLETE	08/21/2003	2325		IOWA-OA2	
EXTRACTABLE HYDROCARBONS-WATER						
Total Extractable Hydrocarbons	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Diesel	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Gasoline	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
Motor Oil	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015 380
N-Octacosane (Surr.)	93	%	08/26/2003	2325	4127	IA-OA2/S-8015 100

QUALITY CONTROL REPORT

LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

08/27/2003

Brian Lenz

Job Number: 03.10754

			Date	Prep	Run		
			Analyzed	Batch	Batch		
Result	Units			Number	Number	Analysis Method	Quantitation Limit
752238	MW-4	EN301	08/19/2003				
Extraction Prep	COMPLETE		08/21/2003	2325		IOWA-OA2	
EXTRACTABLE HYDROCARBONS-WATER							
Total Extractable Hydrocarbons	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015	380
Diesel	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015	380
Gasoline	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015	380
Motor Oil	<380	ug/L	08/26/2003	2325	4127	IA-OA2/S-8015	380
N-Octacosane (Surr.)	93	%	08/26/2003	2325	4127	IA-OA2/S-8015	100

QUALITY CONTROL REPORT CONTINUING CALIBRATION VERIFICATION

LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

08/27/2003

Brian Lenz

Job Number: 03.10754

Analyte	Prep Batch Number	Run Batch Number	CCV True Concentration	Concentration Found	Percent Recovery
EXTRACTABLE HYDROCARBONS-WATER					
Diesel		4127	5,000	5,330	106.6
Gasoline		4127	5,000	5,090	101.8
Motor Oil		4127	5,000	5,070	101.4

CCV - Continuing Calibration Verification

QUALITY CONTROL REPORT BLANKS

LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

08/27/2003

Brian Lenz

Job Number: 03.10754

Analyte	Prep Batch Number	Run Batch Number	Blank Analysis	Units
EXTRACTABLE HYDROCARBONS-WATER				
Total Extractable Hydrocarbons	2325	4126	<380	ug/L
Diesel	2325	4126	<380	ug/L
Gasoline	2325	4126	<380	ug/L
Motor Oil	2325	4126	<380	ug/L

QUALITY CONTROL REPORT LABORATORY CONTROL STANDARD

08/27/2003

Brian Lenz
LENZ ENVIRONMENTAL
4950 Pleasant Street
West Des Moines, IA 50266

Job No: 03.10754

Analyte	Prep	Run	LCS		LCS		LCS		LCS		Relative	
	Batch	Batch										
	Number	Number	Amount	Units	Result	Result	Recovery	Recovery	Control	Limits	Difference	Percent
EXTRACTABLE HYDROCARBONS-W												
Diesel	2325	4126	2,000	ug/L	1,610	1,550	80.5	77.5	53 - 121	3.8		
N-Octacosane (Surr.)	2325	4126	100	%	99	91	99.0	91.0	41 - 151	8.4		

TestAmerica Job Number: 03.10754

ATTACHMENTS

Following are the sample receipt log and the chain of custody applicable to this analytical report.

Any abnormalities or departures from sample acceptance policy shall be documented on the "Sample Receipt and Temperature Log Form" and Sample Non-Conformance Form" (if applicable) included with this report.

For information concerning certifications of this facility or another TestAmerica facility please visit our website at www.TestAmericaInc.com.

This report shall not be reproduced, except in full, without written approval of the laboratory.

For questions regarding this report, please contact the individual who signed the analytical report.

Sample Receipt and Temperature Log Form

Client: LENZ ENVIRONMENTAL Project: Morton
City: WEST DES MOINES
Date: 8-20-03 Receiver's Initials: MM Time (Delivered): 12:30

Temperature Record

Cooler ID# (If Applicable)

EM-22

6 °C / On Ice

(WV-2 NTD)

Thermometer

☐ IR-905085 "A"

☒ IR-809065 "B"

☐ 22126775

☐ CF07-03-T2

Courier:

☐ Airborne

☐ Speedy

☐ UPS

☒ TA Courier

☐ Velocity

☐ TA Field Svs

☐ Fed Ex

☐ Client

☐ DHL

☐ Other: _____

☐ US Postal

Temp Blank ☐

Custody Seals Present?

☐ Yes

Custody Seals Intact?

☐ Yes

☐ No

Exceptions Noted

☐ Sample(s) Not Received in Cooler

☐ Temperature Not Taken

☐ Sample(s) Received Within 6 hrs of sampling

☐ Temperature Out of Conformance

☐ Non-conformance Report Started

Log-In By:

JP MF EM

Other: _____

*Refer to SOP CF01-01 for Temperature Criteria



Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone: 319-277-2401
Fax: 319-277-2425

To assist us in using the proper analytical methods,
is this work being conducted for regulatory purposes?
Compliance Monitoring SITE CHECK

Client Name LEVE ENVIRONMENTAL Client #:

Address: 4450 PLEASANT ST

City/State/Zip Code: WEST DES MOINES IA 50266

Project Manager: BRIAN LEVE

Telephone Number: 515 221-3943 Fax: 225-4193

Sampler Name: (Print Name) BRIAN LEVE

Sampler Signature: Brian Leve

Project Name: MORTON

Project #: EN301

Site/Location ID: West Des Moines State: IA

Report To: BRIAN

Invoice To:

Quote #: PO#:

TAT ☒ Standard ☐ Rush (surcharges may apply) Date Needed: _____ Fax Results: Y N		Matrix	Preservation & # of Containers	Analyze For:	QC Deliverables	
SAMPLE ID	Date Sampled	Time Sampled	G = Grab, C = Composite Field Filtered SL - Sludge DW - Drinking Water GW - Groundwater S - Solid WW - Wastewater Specify Other	HNO ₃ HCl NaOH H ₂ SO ₄ Methanol None Other (Specify)	Other (Specify)	QC Deliverables ☐ None ☐ Level 2 (Batch QC) ☐ Level 3 ☐ Level 4 Other: _____
MW-1	8/19/03		G		OA-2	
MW-2	"		G			
MW-3	"		G			
MW-4	"		G			
Special Instructions:						
LABORATORY COMMENTS: Init Lab Temp: Rec Lab Temp: Custody Seals: Y N N/A Bottles Supplied by TestAmerica: Y N Method of Shipment:						
Relinquished By: <u>Brian Leve</u>	Date: <u>8/20/03</u>	Time:	Received By: <u>Test America</u>	Date: <u>8/20/03</u>	Time: <u>2:15</u>	
Relinquished By:	Date:	Time:	Received By: <u>Edna M. Mullins</u>	Date: <u>8/21/03</u>	Time: <u>8:00</u>	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	