

02.08-10/01/96-01744

**Contractor's Closeout Report
Time Critical Removal Action Plan
Soil Remediation
Operable Unit 11, Site 80
MCB Camp Lejeune
Jacksonville, North Carolina**

Contract No. N62470-93-D-3032
Delivery Order 0100

Volume II of III

Prepared for:

**Department of the Navy
Atlantic Division
Naval Facilities Engineering Command
Norfolk, VA**

Prepared by



**OHM Remediation
Services Corp.**
A Subsidiary of OHM Corporation

5335 Triangle Parkway, Suite 450
Norcross, GA 30092

October 1996

OHM Project No. 18319

02.08-10/01/96-01744

Appendix C
Waste Manifests

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DC NOT WRITE IN THIS SPACE
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Required under authority of Act 54 PA 1979, as amended and Act 136 PA 1969

Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, PA 1969.

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Form Approved. OMB No. 2050-0039 Expires 9-30-94

IN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN P 1-800-424-8802 24 HOURS PER DAY.

ALL CE

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI0117010221518101121716		Manifest Document No. 21716		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547				Commanding General Act's Environmental Mgmt. Dept. Attn: Tom Morris		A. State MI		Manifest Document Number 3905294	
4. Generator's Phone (715) 451-5068				6. US EPA ID Number MI01101617112121911		B. State		Generator's ID	
5. Transporter 1 Company Name P. Morris & Sons, Inc.				8. US EPA ID Number		C. State		Transporter's ID	
7. Transporter 2 Company Name				10. US EPA ID Number		D. State		Transporter's Phone (205) 744-2400	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE Belle Isle, MI 48111				12. Containers No. Type 21011 MT 11/18/210		E. State		Transporter's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER) a. X RQ HAZARDOUS waste solid, N.O.S., 9, NA577, PG III (DDT, DDD)				13. Total Quantity		F. State		Transporter's Phone	
b.				14. Unit Wt/Vol		G. State		Facility's ID	
c.				15. Waste No.		H. State		Facility's Phone 3137699-7120	
d.				N/H					
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD U.S. EPA waste code Approval # 033896 MO 1101846						K. Handling Codes for Wastes Listed Above		a1 1 b1 1 c1 1 d1 1	
15. Special Handling Instructions and Additional Information *A) IF SPILL OCCURS REFER TO ER. Guide Book 24 HR EMERGENCY RESPONSE # (205) 744-2400									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name TS MORRIS				Signature <i>TS Morris</i>				Date 11/19/96	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name KENNETH J DONALDSON				Signature <i>Kenneth J Donaldson</i>				Date 11/19/96	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name JAMES M COMBS				Signature <i>James M Combs</i>				Date 10/31/96	

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1979, as amended and Act 136, P.A. 1969.

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 461171002-581061376		Manifest Document No. 061376		2. Page 1 of 1		Information in the shaded is not required by law.							
3. Generator's Name and Mailing Address CAMP LE... US MAIL... CAMP LE...						A. State Manifest Document Number MI 4046901		B. State Generator's ID							
4. Generator's Phone (914) 241-2688						6. US EPA ID Number MI 1010617113181911		C. State Transporter's ID							
5. Transporter 1 Company Name ROBBIE D WOOD						8. US EPA ID Number		D. Transporter's Phone (205) 774-3145							
7. Transporter 2 Company Name						10. US EPA ID Number		E. State Transporter's ID							
9. Designated Facility Name and Site Address Michigan Disposal, Inc 49350 N. I-74 Service Drive Bellville, MI 48111						10. US EPA ID Number MI 10106172418131		F. Transporter's Phone							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N/H			
a. X RO HAZARDOUS WASTE Solid, N.O. 39, NA307, PC III (DDT, DDD)						0107 DIT		45240 lb		401610		H			
b.															
c.															
d.															
J. Additional Descriptions for Materials Listed Above A. Please also add U.S. EPA ID # 40613 APPROVAL # 032896 MQ						K. Handling Codes for Wastes Listed Above		a/ - /		b/ - /		c/ - /		d/ - /	
15. Special Handling Instructions and Additional Information						IF Spill Occurs, Refer to ER Guidebook # a) 31 24 HOUR EMERGENCY RESPONSE # (800) 424-9300									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						Printed/Typed Name TSMORRIS		Signature TSMORRIS		Date 05/28/96					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name Gerald T Swann		Signature Gerald T Swann		Date 05/28/96					
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name		Signature		Date					
19. Discrepancy Indication Space						None									
J. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Printed/Typed Name James M. Corcoran		Signature James M. Corcoran		Date					

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC 61170102258101377		Manifest Document No. 01377		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547		COMMANDING GENERAL A/C/S ENVIRONMENTAL MGMT. DEPT ATTN - TOM MORRIS		A. State Manifest Document Number MI 4046905		B. State Generator's ID			
4. Generator's Phone (910) 451-5068		5. Transporter 1 Company Name ROBBIE D WOOD		6. US EPA ID Number AL01067138891		C. State Transporter's ID		D. Transporter's Phone (205) 744-8440	
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. F-94 SERVICE DR. LC Belleville, MI 48111		10. US EPA ID Number MI0101017248311		G. State Facility's ID		H. Facility's Phone (313) 699-7120			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No. N/H	
a. X RQ HAZARDOUS waste solid, N.O.S., 9, NA3077 PG III (DOT, DDD)		001 DT 4612016		4060 H					
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA waste code 4061 APPROVAL #032896 MQ 361-731		K. Handling Codes for Wastes Listed Above		a/ /		b/ /		c/ /	
				d/ /					
15. Special Handling Instructions and Additional Information		IF spill occurs, refer to ER GuideBook # A/31 24 Hour Emergency Response # (800) 424-7300							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name T S MORRIS		Signature <i>T S Morris</i>		Date 01 28 96					
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name D. T. Gandy		Signature <i>D T Gandy</i>		Date 01 28 96			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date			
19. Discrepancy Indication Space 4 TW 90									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		Printed/Typed Name James M Combs		Signature <i>James M Combs</i>		Date 01 29 96			

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 617002258081378		Manifest Document No. 378		2. Page 1 of 1		Information in the shaded areas is not required by law.			
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547 Generator's Phone (910) 451-5068						A. State Manifest Document Number MI 4046906					
4. Transporter 1 Company Name ROBBIE D. WOOD, INC.						6. US EPA ID Number ALD067138891		B. State Generator's ID			
5. Transporter 2 Company Name						8. US EPA ID Number		C. State Transporter's ID			
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DR. BELLEVILLE, MI 48111						10. US EPA ID Number MI D101017248311		D. Transporter's Phone (203) 744-8440			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. X RQ HAZARDOUS WASTE SOLID, N.O.S., 9, NA3073 PG II (DOT, DDD)						12. Containers No. Type 001 D 44420		13. Total Quantity 10		14. Unit Wt/Vol 4060 H	
15. Special Handling Instructions and Additional Information IF Spill OCCURS, REFER TO ER. GUIDBOOK #031 24 HOUR EMERGENCY RESPONSE # (800) 434-9300						16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		17. Handling Codes for Wastes Listed Above a / / b / / c / / d / /			
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: PAUL COX Signature: [Signature]						18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: [Blank] Signature: [Blank]		Date Month Day Year 05 28 96			
19. Discrepancy Indication Space NOW FB						20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: James A. Vigness II Signature: [Signature]		Date Month Day Year 05 29 96			

ALL HAZARDOUS WASTE MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN ACCORDANCE WITH ACT 136, P.A. 1969, SECTION 10. CALL AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MC 617002258001379 Manifest Document No.

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: CAMP LEJEUNE, U.S. MARINE CORPS BASE, CAMP LEJEUNE NC 28547

A. State Manifest Document Number: MI 4046907

4. Generator's Phone: 910 451-5060

B. State Generator's ID

5. Transporter 1 Company Name: Robbie D. Wood, Inc.

C. State Transporter's ID

9. Designated Facility Name and Site Address: Michigan Disposal, Inc., 49350 N. I-94 Service Drive, Belleville, MI 48111

D. Transporter's Phone: (205) 744-2440

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone: (313) 699-7120

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER): RQ HAZARDOUS WASTE solid, N.O.S., 9, MAR 3077, PG III (DOT, DDD)

12. Containers No. 0016 Type 017

13. Total Quantity 43700 lb

14. Unit Wt/Vol 16

I. Waste No. 4060 H

J. Additional Descriptions for Materials Listed Above: A. Please Also Add U.S. EPA Waste Code U061 Approval #032896 MQ 1/61727

K. Handling Codes for Wastes Listed Above: a/ 1, b/ 1, c/ 1, d/ 1

15. Special Handling Instructions and Additional Information: IF spill occurs, refer to ER Guide Book #A31 24 Hr. Emergency Response #(800) 424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: TSMORRIS Signature: [Signature] Date: 05/28/96

17. Transporter 1 Acknowledgement of Receipt of Materials: Printed/Typed Name: CRAIG COP Signature: [Signature] Date: 05/28/96

18. Transporter 2 Acknowledgement of Receipt of Materials: Printed/Typed Name: Signature: [Signature] Date: [Blank]

19. Discrepancy Indication Space: MW 7B

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: JAMES M. CONNOR Signature: [Signature] Date: 05/28/96

1-800-282-4706 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE

IT BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN -424-9802 24 HOURS PER DAY.

ALL SPILL CENTER

GENERATOR

TRANSPORTER

FACILITY

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MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 517-373-7880 AND THE NATIONAL RESPONSE

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MC16171010212580		Manifest Document No. 01300		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
		3. Generator's Name and Mailing Address CAMP LE JEUNE U.S. MARINE CORPS CAMP LE JEUNE, NC 28547 Generator's Phone (910) 451-5068		COMMANDING GENERAL A/C'S ENVIRONMENTAL MGMT Dept. ATTN: Tom Morris		A. State Manifest Document Number MI 4046908		B. State Generator's ID	
5. Transporter 1 Company Name ROBBIE D. WOOD		6. US EPA ID Number AL10016711318191		C. State Transporter's ID		D. Transporter's Phone (205) 744-8444		E. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		F. Transporter's Phone		G. State Facility's ID		H. Facility's Phone	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DR. Belleville, MI 48111		10. US EPA ID Number MI1010101724831		G. State Facility's ID		H. Facility's Phone (313) 699-7120			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. X RQ HAZARDOUS WASTE Solid N.O.S., 9, NA307, PG III (DOT, DDD)				0010TH		754015		4060H	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA Waste Code 4061 APPROVAL #032896 MQ				K. Handling Codes for Wastes Listed Above		a/ 7		b/ 1	
						c/ 1		d/ 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO E.R. Guide Book A13 24 Hr. Emergency Response # (800) 424-9300									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.								181733	
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name TS MORRIS		Signature <i>TS Morris</i>				Date Month Day Year 05 28 96			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name ELVIS SPENCE		Signature <i>Elvis Spence</i>		Date Month Day Year 05 28 96			
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date Month Day Year			
19. Discrepancy Indication Space		MAW		70					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.				Printed/Typed Name James A. Vignass		Signature <i>James A. Vignass</i>		Date Month Day Year 05 29 96	

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IN AT 1-800-292-4709 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE

GENERATOR

TRANSPORTER

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MC161170102215801013811	Manifest Document No. 31811	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Camp Lejeune U.S. MARINE CORPS BASE CAMP LEJEUNE, NC		Commanding General A's Environmental Mgmt. Dept. ATTN: Tom Morris		A. State Manifest Document Number MI 4046910	B. State Generator's ID	
4. Generator's Phone (910) 451-5068		ATTN: Tom Morris		C. State Transporter's ID		D. Transporter's Phone (205) 744-2444
5. Transporter 1 Company Name Robbie D. Wood		6. US EPA ID Number ALD101617113881911		E. State Transporter's ID		F. Transporter's Phone
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone (313) 699-7120
9. Designated Facility Name and Site Address Michigan Disposal, Inc. 49350 N. I-94 Service Drive Belleville, MI 48111		10. US EPA ID Number M110101017248311				
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste No. N/H
a. X RQ HAZARDOUS waste Solid, N.O.S., 9, NA307, PG III (DOT, DDD)		001	OT	4964.010	4060	HT
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA waste code U061 Approval #032896 MQ		K. Handling Codes for Wastes Listed Above		a / 1 b / 1 c / 1 d / 1		
15. Special Handling Instructions and Additional Information IF spill occurs, refer to ER Guide Book #A13/ 24 Hour Emergency Response # (800) 424-9300		181737				
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name TSMORRIS		Signature TSMorris		Date Month Day Year 05 28 96		
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name Randy Jones		Signature Randy Jones		Date Month Day Year 05 24 96
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date Month Day Year
19. Discrepancy Indication Space UNW JB						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name James A. Vignass II		Signature James A. Vignass II		Date Month Day Year 05 27 96

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T 1-800-292-4706 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 16117101022158011382		Manifest Document No. MI 16117101022158011382		2. Page 1 of 1		Information in the shaded area is not required by Federal law.			
3. Generator's Name and Mailing Address CAMP LEJEUNE 4-3 MARINE CORPS BASE CAMP LEJEUNE NC 28547				Commanding General ACSE Environmental Mgmt ATTN: Tom Morris				A. State Manifest Document Number MI 4046911		B. State Generator's ID	
4. Generator's Phone (919) 1451-3068				5. Transporter 1 Company Name Robbie D. Wood				6. US EPA ID Number ALD1067113818911		C. State Transporter's ID	
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone (205) 744-8440		E. State Transporter's ID	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 Service Drive Belleville, Michigan 48111				10. US EPA ID Number MI 10101072148311				G. State Facility's ID		H. Facility's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. X RQ HAZARDOUS WASTE SOLID, No. 25, 9, NA 307, PG III (DDT, DDO)						No. 001 DIT		Type 4764		Quantity 1016	
b.										Waste No. 4060H	
c.											
d.											
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD U.S. EPA WASTE CODE U061 APPROVAL # 032896 MGR 10734						K. Handling Codes for Wastes Listed Above a/ / b/ / c/ / d/ /					
15. Special Handling Instructions and Additional Information IF spill occurs, REFER TO ER - Guide Book # A13 24 Hour Emergency Response # (800) 424-7338											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name TS MORRIS						Signature <i>TS Morris</i>			Date 05 28 96		
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name Joseph W. Fowler						Signature <i>Joseph W. Fowler</i>			Date 05 28 96		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name						Signature			Date		
19. Discrepancy Indication Space MOU TO											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name James M. Conroy						Signature <i>James M. Conroy</i>			Date 05 29 96		

JUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN 00-424-8802 24 HOURS PER DAY.

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
 ATT. DIS. REJ. PR.

Required under authority of Act 64, P.A. 1979, as amended and Act 136, P.A. 1969.

Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved OMB No. 2050-0039 Expires 9-30-9

AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

JUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MIC 800-424-9802 24 HOURS PER DAY.

ALL FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MC6117100225810611383		Manifest Document No. 1383		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address Camp LeJeune U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547						A. State Manifest Document Number MI 4046912							
4. Generator's Phone (910) 451-5068						B. State Generator's ID							
5. Transporter 1 Company Name ROBBIE D. WOOD						C. State Transporter's ID							
6. US EPA ID Number HA1101061713188911						D. Transporter's Phone (205) 744-2446							
7. Transporter 2 Company Name						E. State Transporter's ID							
8. US EPA ID Number						F. Transporter's Phone							
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MI 48111						10. US EPA ID Number MI21010107248311							
G. State Facility's ID						H. Facility's Phone (313) 699-7120							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		L. Waste No. - N/H	
a. RQ HAZARDOUS WASTE SOLID, N.O.S., 9, AMSTZ PG III (DOT, DOD)						001 DT		4526016		16		4060H	
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD EPA WASTE CODE U061 APPROVAL #032896MR						K. Handling Codes for Wastes Listed Above a/1 b/1 c/1 d/1							
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO E.R. GUIDE BOOK P. 5. 24 HOUR EMERGENCY RESPONSE # (300) 424-9300													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.													
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name TSMORRIS						Signature <i>[Signature]</i>						Date 052896	
17. Transporter 1 Acknowledgement of Receipt of Materials												Date	
Printed/Typed Name James Con						Signature <i>[Signature]</i>						Month Day Year 052996	
18. Transporter 2 Acknowledgement of Receipt of Materials												Date	
Printed/Typed Name						Signature						Month Day Year	
19. Discrepancy Indication Space 2 MW 70													
						Received 44100 LBS 97 22 TONS							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.												Date	
Printed/Typed Name JAMES A. VIGASS						Signature <i>[Signature]</i>						Month Day Year 053096	

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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Form Approved OMB No. 2050-0039 Expires 9-30-94

AN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN 1-800-424-8802 24 HOURS PER DAY.

ALICITY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 611710022751810		Manifest Document No. 01131814		2. Page 1 of 1		Information in the shaded area is not required by Federal law			
3. Generator's Name and Mailing Address US MARINE CORPS BASE Camp 2335 N.C. 2547 Belleville, MI 48111				A. State Manifest Document Number MI 3905295		B. State Generator's ID					
4. Generator's Phone (910) 451-5063				ATTN: Tom Morris		C. State Transporter's ID					
5. Transporter 1 Company Name Robbie D. Wood, Inc				6. US EPA ID Number IA ID 016711318191		D. Transporter's Phone (205) 744-8440					
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID					
9. Designated Facility Name and Site Address MICHIGAN DODGE 49355 N. I-74 SERVICE ROAD Belleville, MI 48111				10. US EPA ID Number MI ID 01037271331		G. State Facility's ID					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER) a. RA HAZARDOUS WASTE Solid, N.O.S., 1, NA 3077, PBTL (DOT, 000)				12. Containers No. Type		13. Total Quantity		14. Unit M/Vol		15. Waste No. N/H	
X				00110		4759018		4060		H	
16. Additional Descriptions for Materials Listed Above: PLEASE ADD US EPA Waste Code 00061 APPROX 032896 TONS (M64)				K. Handling Codes for Wastes Listed Above		a1 1		b1 1		c1 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS REFER TO ER. GUIDANCE - P) 31 24 HOUR EMERGENCY RESPONSE				16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		Printed/Typed Name TSMORRIS		Signature [Signature]	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name WESLEY LAYTON		Signature [Signature]		Date 05/29/96		Date 05/29/96	
18. Transporter 2 Acknowledgement or Receipt of Materials				Printed/Typed Name		Signature		Date		Date	
19. Discrepancy Indication Space				20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name James M Combs 2		Signature [Signature]		Date 05/31/96	



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

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Required under authority of Act 54 PA 1979, as amended and Act 136 PA 1969

Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, PA 1969

Please print or type

Form Approved OMB No. 2050-0039 Expires 9-30-94

AN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN 1-800-424-8802 24 HOURS PER DAY

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>MI 1117 00113816</u>		Manifest Document No. <u>0113816</u>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law									
3. Generator's Name and Mailing Address <u>Camp Lejeune U.S. Marine Corps Camp Lejeune, NC 28547</u>						A. State Manifest Document Number <u>MI-3905296</u>											
4. Generator's Phone <u>(919) 451-5168</u>						B. State Generator's ID											
5. Transporter 1 Company Name <u>R. B. C. Delwood</u>						C. State Transporter's ID											
6. US EPA ID Number <u>MI 111010617113181911</u>						D. Transporter's Phone <u>(205) 744-844</u>											
7. Transporter 2 Company Name						E. State Transporter's ID											
8. US EPA ID Number						F. Transporter's Phone											
9. Designated Facility Name and Site Address <u>MICHIGAN DISPOSAL, INC 47350 N. I-94 SERVICE DRIVE Detroit, MI 48111</u>						G. State Facility's ID											
10. US EPA ID Number <u>MI 11101010171214181311</u>						H. Facility's Phone <u>(313) 699-720</u>											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.		16. N/H			
a. <u>X RQ HAZARDOUS waste solid, N.O.S., 9NA3077, P6 III (DDT, DDD)</u>						<u>011017</u>		<u>441980</u>		<u>18</u>		<u>410610</u>		<u>H</u>			
b.																	
c.																	
d.																	
17. Additional Descriptions for Materials Listed Above						K. Handling Codes for Wastes Listed Above											
<u>Please Also Add U.S. EPA Waste Code 406 F Approval #032896 HQ</u>						a) <u>1</u> b) <u>1</u> c) <u>1</u> d) <u>1</u>											
15. Special Handling Instructions and Additional Information						<u>IF SPILL OCCURS, REFER TO ER. Guidebook F13/ 24 HOUR Emergency Response # (800) 424-733</u>											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						<u>181799</u>											
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name <u>T. S. MORRIS</u>						Signature <u>[Signature]</u>						Date <u>05 29 96</u>					
17. Transporter 1 Acknowledgement of Receipt of Materials						Date											
Printed/Typed Name <u>Gary Campbell # 95</u>						Signature <u>[Signature]</u>						Date <u>05 26 96</u>					
18. Transporter 2 Acknowledgement or Receipt of Materials						Date											
Printed/Typed Name						Signature						Date					
19. Discrepancy Indication Space						<u>7 B A 3</u>											
						<u>MI I received 45240 LBS at 23 TONS</u>											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						Date											
Printed/Typed Name <u>James A. Vignass</u>						Signature <u>[Signature]</u>						Date <u>05 20 96</u>					



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Required under authority of Act 64 PA 1979 as amended and Act 136 PA 1969

Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136 PA 1969

Form Approved OMB No. 2050-0039 Expires 9-30-94

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 6117010121527011385		Manifest Document No. 2011385		2. Page 1 of 1		Information in the shaded is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, N.C. 28547				Commanding General Act. Environmental Mnt. Dept. ATTN: TOM MORRIS		A. State Manifest Document Number MI 3905297			
4. Generator's Phone (910) 451-3062				6. US EPA ID Number AL100167113181911		B. State Generator's ID			
5. Transporter 1 Company Name RUBIE D WOOD				8. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name				10. US EPA ID Number		D. Transporter's Phone			
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC 49350 N J-74 SERVICE DRIVE Bellefleur, MI 48111				10. US EPA ID Number MI 701010101712148311		E. State Transporter's ID			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER) a. X RO HAZARDOUS WASTE SOLID, N.O.S., 9, NA 3077, PG III (DOT, 000)				12. Containers No. Type		13. Total Quantity		14. Waste No. / NH	
				101 0148000		18406107			
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER GUIDANCE #A) 31 24 HOUR EMERGENCY RESPONSE				16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: DONNIE WHITE Signature: Donnie White Date: 052996				18. Transporter 2 Acknowledgement or Receipt of Materials Printed/Typed Name: [Blank] Signature: [Blank] Date: [Blank]					
19. Discrepancy Indication Space 7B 07				20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name: JAMES A. VIGNASSA Signature: James A. Vignassa Date: 053096					

MAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

US MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN T 1-800-424-8802 24 HOURS PER DAY.

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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Required under authority of Act 64 PA 1979, as amended and Act 136 PA 1969

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Please print or type

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **MI C1611710101215810013187**

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
CAMP LEJEUNE
US MARINE CORPS BASE
CAMP LEJEUNE, NC 28547

COMANDING GENERAL
 ACTS ENVIRONMENTAL Mgmt
 DEPT.
 ATTN. TOM MORRIS

A. State Manifest Document Number
MI 3905299

4. Generator's Phone **(910) 451-5068**

5. Transporter 1 Company Name
ROBBIE D. WOOD, INC.

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone **(205) 744-844**

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
MICHIGAN DISPOSAL, INC
49350 N I-74 SERVICE DR. E
BELLEVILLE, MI 48111

10. US EPA ID Number
MI D1010107241831

G. State Facility's ID

H. Facility's Phone **313-699-7120**

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)

12. Containers

13. Total Quantity

14. Unit W/Vol

15. Waste No. / NIH

a. **RQ HAZARDOUS WASTE Solid, N.O.S., 9, NA 3077, PG III (DDT, DDD)**

010107501001B 4060 H

b.

c.

d.

12. Additional Descriptions for Materials Listed Above
A. Please Also Add US EPA Waste Code
4061 APPROVAL # 032896 MO

13. Handling Codes for Wastes Listed Above
 a1 - 1
 b1 - 1
 c1 - 1
 d1 - 1

15. Special Handling Instructions and Additional Information
IF SPILL OCCURS, REFER TO ER GUIDEBOOK #A737 24 HOUR EMERGENCY (800) 424-9300

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **TS MORRIS** Signature **TS Morris** Date **05/29/96**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Willie Fortney** Signature **Willie Fortney** Date **05/30/96**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Date _____

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name **KA** Signature **KA** Date **5/31/96**

ALL STATES MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN V
 CAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE
 CENTER AT 1-800-424-9302 24 HOURS PER DAY.

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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 ATT. DIS. REJ. PR.

Required under authority of Act 64 PA 1979, as amended and Act 136 PA 1969
 Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, PA 1969

Form Approved OMB No. 2050-0039 Expires 9-30-94

Please print or type

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 6117010121251810		Manifest Document No. 0113818		2. Page 1 of 1		Information in the shaded area is not required by Federal law	
3. Generator's Name and Mailing Address CAMP LEJEUNE US MARINE CORPS BASE CAMP LEJEUNE NC 28547		4. Generator's Phone 910 345-5002		5. Transporter 1 Company Name ROBBIE D. WOOD, INC		6. US EPA ID Number 1411016171312191		7. State Manifest Document Number MI 3905306	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE BELLEVILLE MI 48111		10. US EPA ID Number 14110101012418311		8. US EPA ID Number		9. State Generator's ID		10. State Transporter's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM)		12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N/H	
a. X RA HAZARDOUS WASTE SOLID, N.O.S., NA3077, PGII (DOT, DDD)		10		41018131018		18		60161011	
b.									
c.									
d.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.		17. Handling Codes for Wastes Listed Above		a/ 1		b/ 1		c/ 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER. GuideBook A) 31 24 HOUR EMERGENCY RESPONSE (24) 930		A. Please Also Add U.S. EPA Waste Code 4061 APPROVAL # 03289010							
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature TSMorris		Date 0530196					
18. Transporter 2 Acknowledgement or Receipt of Materials		Signature Lance Myrick		Date 053196					
19. Discrepancy Indication Space 10 A 18 6/1/96		MDI RECEIVED 42900 LBS AT ZITON							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Signature James M. Carls Jr		Date 0601196					

MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Please print or type

Form Approved. OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 6170101212518101113189		Manifest Document No. 13189		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LEJUNE US MARINE CORPS BAS CAMP LEJUNE MC 28547				Commanding General Act's Environmental Mgmt. Dept. ATTN: Tom Morris		A. State Manifest Document Number MI 3905305			
4. Generator's Phone (910) 467-3063				5. Transporter 1 Company Name ROBBIE D. WOOD		6. US EPA ID Number AL1006711388911		B. State Generator's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone (205) 744-34	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE Belle Isle MI 48111				10. US EPA ID Number MI 2101019721481311		E. State Transporter's ID		F. Transporter's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. X RQ HAZARDOUS waste solid, N.O.S., 9, NA 3072, PG III (DOT, DOD)				001 101T 410104101B		4101610		H	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA Wasteside Job APPROVAL # 032896 MQ				K. Handling Codes for Wastes Listed Above		a1 1		b1 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, Ref to ER Guidebook EPA 31 24 HR Emergency Response (800) 424-9300						c1 1		d1 1	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.									
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name TS MORRIS				Signature [Signature]				Date 05/30/96	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name WILLIAM S OSS				Signature [Signature]				Date 05/30/96	
18. Transporter 2 Acknowledgement or Receipt of Materials									
Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space HOW 9A									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed/Typed Name JAMES M. COMBS JR				Signature [Signature]				Date 05/31/96	

MAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IF AT 1-800-424-9802 24 HOURS PER DAY



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE

ATT. DIS. REJ. PR.

Required under authority of Act 64 PA 1979 as amended and Act 136 PA 1969

Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, PA 1969

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Form Approved OMB No. 2050-0039 Expires 9-30-94

ALL SULLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8602 24 HOURS PER DAY

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded area is not required by Federal law		
3. Generator's Name and Mailing Address Camp Lejeune U.S. Marine Corps Base Camp Lejeune, N.C. 28547		Commanding General Act's Environmental Mgmt. Dept ATTN: Training		A. State Manifest Document Number MI 3905304			
4. Generator's Phone (910) 451-5062		6. US EPA ID Number M11111111111111111111		B. State Generator's ID			
5. Transporter 1 Company Name RORRIS D. Wood		8. US EPA ID Number		C. State Transporter's ID			
7. Transporter 2 Company Name		10. US EPA ID Number		D. Transporter's Phone (205) 744-8111			
9. Designated Facility Name and Site Address Michigan Disposal, Inc 47350 N I-94 SERVICE DR. W Belleville MI 48111		10. US EPA ID Number M11111111111111111111		E. State Transporter's ID			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers		13. Total Quantity		14. Unit Wt/Vol	
a. X RO HAZARDOUS WASTE SOLID, N.O.S., 9, NA300 PG II (DOT, DDD)		No. Type		15. Waste No.		NFH	
		01011 01T		45/1410 13		4060 4	
J. Additional Descriptions for Materials Listed Above		K. Handling Codes for Wastes Listed Above		a/ 1			
A. PLEASE ALSO ADD US EPA WASTE CODE VOL APPROVAL # 032896 MQ				b/ 1			
				c/ 1			
				d/ 1			
15. Special Handling Instructions and Additional Information #A) 31 IF SPILL OCCURS, REFER TO ER GUIDE BOOK 24 HOUR EMERGENCY RESPONSE # (300) 424-7300							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name TS MORRIS		Signature <i>TS Morris</i>		Date 10/30/96			
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name GEORGE PARKER		Signature <i>George Parker</i>		Date 10/31/96			
18. Transporter 2 Acknowledgement or Receipt of Materials							
Printed/Typed Name		Signature		Date			
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name JAMES M. COMBS JR		Signature <i>James M. Combs Jr</i>		Date 10/31/96			

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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1700
 Failure to file is punishable under
 section 299 548 MCL or Section 10 of
 Act 136, PA 1969

Form Approved. OMB No. 2050-0039 Expires 9-30-94

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SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI C 61170101212518120113411	Manifest Document No. 20113411	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
Generator's Name and Mailing Address Camp Lejeune 4.5 MARINE CORPS BASE CAMP LEJEUNE NC 28547		Commanding General Act's Env. Response Unit Milit. Dept		A. State Manifest Document Number MI 3905303		
4. Generator's Phone (910) 451-5068	ATTN: Tom Morris		B. State Generator's ID			
5. Transporter 1 Company Name Robbie D. Wood	6. US EPA ID Number MI D001671313181911	C. State Transporter's ID		D. Transporter's Phone (205) 744-8440		
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID		E. Transporter's Phone		
9. Designated Facility Name and Site Address Michigan Disposal, Inc 49350 N I-94 Service Dr. UR Bellville, Michigan 48111		10. US EPA ID Number MI D0010172148311	G. State Facility's ID		H. Facility's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	H. Waste Class No. N/H
a. <input checked="" type="checkbox"/> RA HAZARDOUS WASTE SOLID, N.O.S., 9, (4307) <input checked="" type="checkbox"/> PG II (DOT, ODD)		0101	DT	42000	18	4060 H
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA Waste Code 4061 APPROVAL # 032896 MR				K. Handling Codes for Wastes Listed Above a) 1 b) 1 c) 1 d) 1		
15. Special Handling Instructions and Additional Information IF spill occurs, refer to ER. Guid Book # A) 31 24 Hour Emergency Response						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name TSMORRIS		Signature <i>TSMORRIS</i>		Date 05/30/96		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Date Month Day Year		
18. Transporter 2 Acknowledgement or Receipt of Materials						
Printed/Typed Name Rodney Glen		Signature <i>Rodney Glen</i>		Date 10/30/96		
19. Discrepancy Indication Space NOV 9A						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.						
Printed/Typed Name James M. Combs J.		Signature <i>James M. Combs J.</i>		Date 05/21/96		

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Required under authority of Act 64 PA 1979 as amended and Act 136 PA 1969

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ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8602 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 16117010225300113192		Manifest Document No. 0113192		2. Page 1 of 1		Information in the shaded area is not required by Fed law						
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, N.C. 28547				Commanding General Act's Environmental Mgmt. Dept. ATTN: TOM MORRIS				A. State Manifest Document Number MI 3905302		B. State Generator's ID				
4. Generator's Phone 910 445-5062				5. Transporter 1 Company Name RORIS D. L...				6. US EPA ID Number IA110016171712191		C. State Transporter's ID		D. Transporter's Phone 705 744-244		
7. Transporter 2 Company Name				8. US EPA ID Number				E. State Transporter's ID		F. Transporter's Phone		G. State Facility's ID		
9. Designated Facility Name and Site Address Michigan Disposal, Inc 47350 N. I-94 Service Drive Belle Harbor, MI 48111				10. US EPA ID Number MI 16117010225300113192				H. State Facility's ID		I. Facility's Phone				
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers No. Type		13. Total Quantity		14. Unit M/Vol		15. Waste No. H/N		
a. X RQ HAZARDOUS WASTE Solid, N.O.S., NA3077, PGII (DDT, DDD)						1		420160		18		6060 H		
b.														
c.														
d.														
16. Additional Descriptions for Materials Listed Above PLEASE ALSO ADD US EPA WASTE CODE 4061 D/DORQUAL # 032876						17. Handling Codes for Wastes Listed Above a/ 1 b/ 1 c/ 1 d/ 1								
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER. Guidebook # A131 24 Hour Emergency Response # (202) 424-7300														
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.														
Printed/Typed Name T. MORRIS						Signature T. Morris			Date 05/31/96					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name MIKE THOMAS			Signature Mike Thomas			Date 05/31/96		
18. Transporter 2 Acknowledgement or Receipt of Materials						Printed/Typed Name			Signature			Date		
19. Discrepancy Indication Space 4TW SA														
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.														
Printed/Typed Name James M. Conas Jr						Signature James M. Conas Jr			Date 05/31/96					

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1979 as amended and Act 136 of 1969
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Form Approved OMB No. 2050-0039 Expires 9-30-94

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI61179922151810		Manifest Document No. 011343		2. Page 1 of 1		Information in the shaded areas is not required by Federal law	
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547				Commanding General Act's Environment + 1 Mgmt. Dept. ATTN: Tom Morris		A. State Manifest Document Number MI 3905301			
4. Generator's Phone 910 451-5000				5. Transporter 1 Company Name Robbie D. Wood		6. US EPA ID Number ALD10167113181911		B. State Generator's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone (205) 744-88	
9. Designated Facility Name and Site Address Michigan Disposal, Inc. 49350 N J-94 Service Drive Belleville, MI 48111				10. US EPA ID Number MA200101017219181311		E. State Transporter's ID		G. State Facility's ID	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. X RQ HAZARDOUS WASTE Solid, N.O.S., 9 NA3077, PG II (CONT, ADD)				001101T487201B		60.60		H	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA Waste Code 4061-Approval #0302896770						Handling Codes for Wastes Listed Above		a) L b) I c) T d) T	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER Guide Book #A31 24HR Emergency Response # (800) 924-9300									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name T. MORRIS				Signature <i>T. Morris</i>				Date 05/30/96	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name STEVEN N.C. BROWN				Signature <i>Steven N.C. Brown</i>				Date 05/30/96	
18. Transporter 2 Acknowledgement or Receipt of Materials									
Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space									

MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM 800 24 HOURS PER DAY

Waste Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in

Printed Name <i>[Signature]</i>	Signature <i>[Signature]</i>	Date Month Day Year 05 30 96
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DNR
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OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 6117010221581013194		Manifest Document No. 013194		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547 Generator's Phone (910) 451-5068				COMMANDING GENERAL A/C'S ENVIRONMENTAL MGMT. DEPT. ATTN: TOM MORRIS		A. State Manifest Document Number MI 4219800		B. State Generator's ID			
5. Transporter 1 Company Name ROBERT D. WOOD				6. US EPA ID Number AL1D10167113181911		C. State Transporter's ID		D. Transporter's Phone (205) 744-8445			
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC 49350 N. I-94 SERVICE DRIVE Belleville MI 48111				10. US EPA ID Number MI1D10167113181911		G. State Facility's ID		H. Facility's Phone (313) 699-7120			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER). HM						12. Containers No. Type		13. Total Quantity	14. Unit Wt/Vol	15. Waste No. N/H	
a. X RQ HAZARDOUS WASTE SOLID, NOS., 9, NA 3077, PG III (DOT, DDD)						610101745640		P	406	PH	
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD EPA WASTE CODE 406 APPROVAL # 032896 MA						K. Handling Codes for Wastes Listed Above a/ 4 b/ 1 c/ 1 d/ 1					
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER. GUIDE BOOK # A131 24HR. EMERGENCY RESPONSE # (800) 424-9300											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name T. MORRIS				Signature T. MORRIS				Date 05/30/96			
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name K. MORRIS				Signature K. MORRIS				Date			
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name				Signature				Date			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name JAMES M. COMBS JR				Signature JAMES M. COMBS JR				Date 06/01/96			

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.

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Form Approved. OMB No. 2050-0039 Expires 9-30

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MK6117002251810113915	Manifest Document No. 13915	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address CAMP LEJEUNE US MARINE CORPS BASE CAMP LEJEUNE, NC 28547		Commanding General A/5 ENVIRONMENTAL Mgmt. Dept.		A. State Manifest Document Number MI 4219799		B. State Generator's ID	
4. Generator's Phone 910 451-5068		ATTN: Tom Morris		C. State Transporter's ID		D. Transporter's Phone (205) 744-24	
5. Transporter 1 Company Name ROBBIE D. WOOD		6. US EPA ID Number ALIN0617113X181911		E. State Transporter's ID		F. Transporter's Phone	
7. Transporter 2 Company Name		8. US EPA ID Number		G. State Facility's ID		H. Facility's Phone (313) 699-7120	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE Belleville, MI 48111		10. US EPA ID Number MICH061072148311		I. Waste No.		N/H	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.		
a. X RQ HAZARDOUS WASTE SOLID, N.O.S., NA3077, PG III (DOT, DDD)		01011	MT412151011	P41060	H		
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD EPA WASTE CODE L061 APPROVAL F032896 MQ		K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /			
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO E.R. Guide Book # A)31 24 HR. EMERGENCY RESPONSE # (800) 424-9300							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name T. MORRIS		Signature 		Date 05/31/96			
17. Transporter 1 Acknowledgement of Receipt of Materials		Printed/Typed Name ELVIS SPENCE		Signature 		Date 05/31/96	
18. Transporter 2 Acknowledgement of Receipt of Materials		Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space		MDI RECEIVED 50320 LBS AT 25 TON					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.		Printed/Typed Name James M. Comas Jr		Signature 		Date 06/01/96	

MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 617-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

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MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded area is not required by Federal law.	
3. Generator's Name and Mailing Address Camp Lejeune U.S. MARINE CORPS BASE Camp Lejeune, N.C., 28547		Commanding General A/Cs Environmental mgmt. Dept. ATTN: TOM MORRIS		A. State Manifest Document Number MI 4219787	B. State Generator's ID	
4. Generator's Phone (910) 741-5062		5. Transporter 1 Company Name Robbie D. Wood		6. US EPA ID Number MI IN 617113181911	C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (205) 744-84		E. State Transporter's ID
9. Designated Facility Name and Site Address Michigan Disposal, Inc. 419350 N. I-94 SERVICE DRIVE Belleville, MI 48111		10. US EPA ID Number MI TD10101017214181311		F. Transporter's Phone		G. State Facility's ID
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.	
a. X RA HAZARDOUS waste solid, N.O.S.; 9,307, PG III (DOT, ODD)		0011	DOT 488210	P	40610	
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD EPA waste code C061 (Approval #032896 ma)				K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /
15. Special Handling Instructions and Additional Information IF spill occurs, refer to ER Guide Book #A)31 24 HR Emergency Response # (300) 424-9300						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determine to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name TSMORRIS		Signature <i>TSMORRIS</i>		Date 05/31/96		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Randy Jones		Signature <i>Randy Jones</i>		Date 05/31/96		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space MDI RECEIVED 40020 LBS AT ZSTON						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name James M Combs Jr		Signature <i>James M Combs Jr</i>		Date 10/6/11/96		

ILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, AT 1-800-424-8802 24 HOURS PER DAY.

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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Form Approved. OMB No. 2050-0039 Expires 9-30-99

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC 61700221580017397		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE 910 23547 231-5068						A. State Manifest Document Number MI 4219798							
4. Generator's Phone (910) 231-5068						B. State Generator's ID							
5. Transporter 1 Company Name ROBBIE D. WOOD						C. State Transporter's ID							
6. US EPA ID Number AL D06171138881						D. Transporter's Phone (205) 744-840							
7. Transporter 2 Company Name						E. State Transporter's ID							
8. US EPA ID Number						F. Transporter's Phone							
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE Belleville, MI 48111						G. State Facility's ID							
10. US EPA ID Number MICHIGAN 017248B11						H. Facility's Phone (313) 699-7120							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. X R.O. HAZARDOUS WASTE solid, N.O.S., 9, NA3077, PG III (OOT, ODD)						20		11740 P		4060 H			
b.													
c.													
d.													
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD EPA waste code 4061 APPROVAL # 0328 96 MA						K. Handling Codes for Wastes Listed Above a/ / b/ / c/ / d/ /							
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO E.R. Guide Book #A) 31 24 HR. EMERGENCY RESPONSE # (800) 424-9300													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name T.S. MORRIS										Signature <i>T.S. Morris</i>		Date 05 01 96	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name A.T. GAUDY										Signature <i>A.T. Gaudy</i>		Date 05 01 96	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name										Signature		Date	
19. Discrepancy Indication Space													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name JANE M. GIBBS JR.										Signature <i>Jane M. Gibbs Jr.</i>		Date 05 01 96	

MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

PILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, AT 1-800-424-9802 24 HOURS PER DAY.

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MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 817-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 16117010225810013198		Manifest Document No. 13198		2. Page 1 of 1		Information in the shaded area is not required by Federal law.							
3. Generator's Name and Mailing Address Camp LeJeune U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547						A. State Manifest Document Number MI -4219797		B. State Generator's ID							
4. Generator's Phone (919) 245-5068						C. State Transporter's ID		D. Transporter's Phone (205) 744-844							
5. Transporter 1 Company Name ROBBIE D. WOOD						6. US EPA ID Number AL10106171131881911		E. State Transporter's ID							
7. Transporter 2 Company Name						8. US EPA ID Number		F. Transporter's Phone							
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MI 48111						10. US EPA ID Number MI10610617248311		G. State Facility's ID							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER) RQ HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077 PG III (DOT, DOD)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N.			
a. <input checked="" type="checkbox"/>						b. <input type="checkbox"/>		c. <input type="checkbox"/>		d. <input type="checkbox"/>		e. <input type="checkbox"/>			
J. Additional Descriptions for Materials Listed Above A. PLEASE ALSO ADD EPA WASTE CODE (UO61 APPROVAL) #032896 MA 1095						K. Handling Codes for Wastes Listed Above a/ <input checked="" type="checkbox"/> b/ <input type="checkbox"/> c/ <input type="checkbox"/> d/ <input type="checkbox"/>									
15. Special Handling Instructions and Additional Information IF SPILL OCCURS REFER TO ER. Guide Book #A) 31 24 HR EMERGENCY RESPONSE # (202) 424-9300															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name TS MORRIS										Signature <i>TS Morris</i>		Date 05/31/96			
17. Transporter 1 Acknowledgement of Receipt of Materials										Printed/Typed Name Joseph W. Fowler		Signature <i>Joseph W. Fowler</i>		Date 05/31/96	
18. Transporter 2 Acknowledgement of Receipt of Materials										Printed/Typed Name		Signature		Date	
19. Discrepancy Indication Space															
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										Printed/Typed Name James M. Cmsz		Signature <i>James M. Cmsz</i>		Date 05/01/96	

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MICHIGAN AT 1-800-282-4708 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 611701022580		Manifest Document No. 011402		2. Page 1 of 1		Information in the shaded area is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, 28547				Commanding General ACIS ENVIRONMENTAL Mgmt. Dept. ATTN: Tom Morris		A. State Manifest Document Number MI 4219788		B. State Generator's ID	
4. Generator's Phone (910) 451-5068				5. Transporter 1 Company Name Robbie D. Wood		6. US EPA ID Number AL10616171328191		C. State Transporter's ID	
5. Transporter 1 Company Name				7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone (205) 744-244	
9. Designated Facility Name and Site Address Michigan Disposal, Inc. 49350 N. I-94 Service Drive Belleville, MI 48111				10. US EPA ID Number MI101017248311		E. State Transporter's ID		F. Transporter's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. X RQ HAZARDOUS WASTE SOLID, N.O.S., 9, NA 3077, PG III (DOT, DDD)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
				1		16100		P 060 H	
J. Additional Descriptions for Materials Listed Above A. Please Also Add U.S. EPA Waste Code U061 Approval # 037896 MD 76137				K. Handling Codes for Wastes Listed Above		a/ /		b/ /	
						c/ /		d/ /	
15. Special Handling Instructions and Additional Information IF spill OCCURS, REFER TO ER-Guide Book #A)31 24HR Emergency Response # (200) 424-9300									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name TSMORRIS				Signature 				Date Month Day Year 06 03 96	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name CRAIG COX				Signature 				Date Month Day Year 06 03 96	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Date Month Day Year	
19. Discrepancy Indication Space 10B 99									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name James A. Conroy				Signature 				Date Month Day Year 06 05 96	

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IN AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

S MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN AT 1-800-424-8802 24 HOURS PER DAY.

AL

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MCV01701022151810114013		Manifest Document No. 14013		2. Page 1 of		Information in the shaded areas is not required by Federal law.											
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORP BASE CAMP LEJEUNE NC 28547 CAMP PHONE 910 451-5068						A. State Manifest Document Number MI 4219790		B. State Generator's ID											
4. Generator's Phone						6. US EPA ID Number AK1D016171131781911		C. State Transporter's ID											
5. Transporter 1 Company Name R. D. Wood						7. Transporter 2 Company Name D		D. Transporter's Phone (205) 744-8											
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49350 N. I-94 SERVICE DRIVE Berkville, MI 48111						10. US EPA ID Number MI101010017214181311		G. State Facility's ID											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. X RQ HAZARDOUS WASTE SOLID, N.O.-3,9, NA3077, PG III (DOT, DOD)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		I. Waste No. N/F							
						0011017493010		P		40960#									
J. Additional Descriptions for Materials Listed Above A. PLEASE ADD 4.5 EPA WASTE CODE U061 APPROVAL #032896MO						K. Handling Codes for Wastes Listed Above 182283						a/ 1		b/ 1		c/ 1		d/ 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER GUIDE B. #A)31 24HR EMERGENCY RESPONSE # (800) 424-8802																			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																			
Printed/Typed Name TSIMORRIS						Signature <i>T. Morris</i>						Date Month Day Year 06 14 1991							
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name DONNIE WHITE						Signature <i>Donnie White</i>		Date Month Day Year 06 14 1991					
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Date Month Day Year					
19. Discrepancy Indication Space BB W																			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																			
Printed/Typed Name James M Combs						Signature <i>James M Combs</i>						Date Month Day Year 06 16 1991							



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AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

ALL SPILL REPORTS TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN 300-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 611710022251810011404	Manifest Document No. 1404	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LeJEUNE U.S. MARINE CORPS BASE CAMP LeJEUNE NC 28547 Generator's Phone (919) 451-5068			Commanding General AC/S ENVIRONMENTAL Mgmt Dept. ATTN: Tom Morris		A. State Manifest Document Number MI 4219791	
5. Transporter 1 Company Name RORRIE D. WOOD			6. US EPA ID Number AK10617V138X191		C. State Transporter's ID	
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone (205) 744-888	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. F-94 SERVICE DRIVE Belleville, MI 48111			10. US EPA ID Number MIA061017R4RB1		E. State Transporter's ID	
					F. Transporter's Phone	
					G. State Facility's ID	
					H. Facility's Phone (313) 699-7120	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)				12. Containers No.	13. Total Quantity	14. Unit Wt/Vol
a. RO HAZARDOUS waste solid, N.O.S., NA300 PG III (DOT, DSD)				1	1	P 4050 H
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above A. Please Add US EPA waste code 2066 Approval # 032896 MA				K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /
15. Special Handling Instructions and Additional Information IF SPILL OCCURS; REFER TO ERP (GUIDE B. OK) 24 HR. EMERGENCY RESPONSE (800) 424-9311						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name TSMORRIS			Signature <i>TSM</i>		Date Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name Joseph W. Fowler		Signature <i>Joseph W. Fowler</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
19. Discrepancy Indication Space 8800						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Date
Printed/Typed Name JAMES M. CORNELL			Signature <i>JAMES M. CORNELL</i>		Date 10/10/91	

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MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC161170102258081405	Manifest Document No. 081405	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address. CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547		4. Generator's Phone (910) 451-5068		A. State Manifest Document Number MI 4046946		B. State Generator's ID
5. Transporter 1 Company Name ROBBIE D. WOOD		6. US EPA ID Number ALD10161711318191		C. State Transporter's ID		D. Transporter's Phone (205) 744-8446
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49350 N.I-94 SERVICE DRIVE Belleville, MI 48111		10. US EPA ID Number MI1010010724831		G. State Facility's ID		H. Facility's Phone (313) 699-7120
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No. N/T
a. RQ HAZARDOUS waste solid, N.O.S., NA 3077, PG III (DOT, ODD)			201	DT 421/100	P	4060 H
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above A. PLEASE Add U.S. EPA waste code 4061 Approval # 032896 m2			K. Handling Codes for Wastes Listed Above		a/ / b/ / c/ / d/ /	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER Guide B # A1312442. EMERGENCY RESPONSE 800-424-9300						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 182 256						
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name TOM MORRIS		Signature <i>[Signature]</i>		Date 06/14/96		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name LARRY WITT		Signature <i>[Signature]</i>		Date 06/14/96		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Date		
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name JAMES A. VIGNASS		Signature <i>[Signature]</i>		Date 06/06/96		

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC 611710022580101408		Manifest Document No. 1408		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.											
3. Generator's Name and Mailing Address CAMP LEJUNE U.S. MARINE CORPS BASE CAMP LEJUNE, NC 28547 mgmt. Dept.				CAMP LEJUNE GENERAL ACTS ENVIRONMENTAL ATTN - Tom MORRIS		A. State Manifest Document Number MI 4046947		B. State Generator's ID											
4. Generator's Phone 910 1451-5082				5. Transporter 1 Company Name ROBBIE D. WOOD		3. US EPA ID Number AT 100673188191		C. State Transporter's ID											
7. Transporter 2 Company Name				8. US EPA ID Number		D. Transporter's Phone (205) 744-84		E. State Transporter's ID											
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49350 N. J-94 SERVICE DRIVE Belleville, MI 48111				10. US EPA ID Number MI D01001721831		G. State Facility's ID		H. Facility's Phone 1313 699-7120											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers		13. Total Quantity		14. Unit Wt/Vol		I. Waste No.		N/T					
a. X RQ HAZARDOUS WASTE SOLID, N.O.S., 9, NA 3077, PG III (DDT, DDD)						001 DTH 6230		P		U		660		H					
b.																			
c.																			
d.																			
J. Additional Descriptions for Materials Listed Above A. PLEASE ADD U.S. EPA WASTE CODE 4061 APPROVAL # 032896 MA						K. Handling Codes for Wastes Listed Above 162263						a/ /		b/ /		c/ /		d/ /	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER. GUIDE B.C. #A) 31 24HR. EMERGENCY RESPONSE # (800) 424-934																			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.																			
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																			
Printed/Typed Name T S MORRIS						Signature <i>T S Morris</i>						Date Month Day Year 06 10 96							
17. Transporter 1 Acknowledgement of Receipt of Materials																			
Printed/Typed Name TONY W PAUER						Signature <i>Tony W Pauer</i>						Date Month Day Year 06 10 96							
18. Transporter 2 Acknowledgement of Receipt of Materials																			
Printed/Typed Name						Signature						Date Month Day Year							
19. Discrepancy Indication Space																			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																			
Printed/Typed Name JAMES M. CONES						Signature <i>James M. Cones</i>						Date Month Day Year 06 06 96							

ALL INFORMATION MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN ACCORDANCE WITH THE NATIONAL RESPONSE PLAN AT 1-800-282-4708 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE PLAN AT 1-800-424-8802 24 HOURS PER DAY.

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UNIFORM HAZARDOUS
WASTE MANIFEST

1. Generator's US EPA ID No. **NC161170102258011401** Manifest Document No.

2. Page **1** of **1** Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
CAMP LEJEUNE
U.S. MARINE CORPS BASE
CAMP LEJEUNE, NC 28547
 4. Generator's Phone **(910) 451-5442**
COMMANDING GENERAL
ACTS ENVIRONMENTAL
MGMT. DEPT.
ATTN: TOM MORRIS

A. State Manifest Document Number
MI 3941573

5. Transporter 1 Company Name
ROBBIE D. WOOD
 6. US EPA ID Number
ALD006171318891

B. State Generator's ID

7. Transporter 2 Company Name

C. State Transporter's ID

9. Designated Facility Name and Site Address
MICHIGAN DISPOSAL INC.
49350 N. J-94 SERVICE DR.
BELLEUILLE, MI 48111
 10. US EPA ID Number
MI10000724831

D. Transporter's Phone **(205) 744-8440**

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone
(313) 699-7120

11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).

12. Containers No. Type 13. Total Quantity 14. Unit Wt/Vol 15. Waste No. N/H

a. **RQ HAZARDOUS waste solid, No. 3, 9, NA 3077, PG III (DDE, DOD)**

201101746300 P 4060 IT

b.

c.

d.

J. Additional Descriptions for Materials Listed Above
A. PLEASE Add EPA - waste code 4065
APPROVAL # 032896 MA
16227

K. Handling Codes for Wastes Listed Above
a/ 1
b/ 1
c/ 1
d/ 1

15. Special Handling Instructions and Additional Information
IF SPILL OCCURS, REFER TO E-R Guide Bw.
#A131 APPROVAL

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **TS MORRIS** Signature **TS Morris** Date **06/04/86**

17. Transporter 1 Acknowledgement of Receipt of Materials
 Printed/Typed Name **Charles C Jones** Signature **Charles C Jones** Date **06/04/86**

18. Transporter 2 Acknowledgement of Receipt of Materials
 Printed/Typed Name _____ Signature _____ Date _____

19. Discrepancy Indication Space
8B 4874 94

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
 Printed/Typed Name **James M Combs Jr** Signature **James M Combs Jr** Date **06/04/86**

THIS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
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Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, P.A. 1969

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC6117101022580B1488		Manifest Document No. 488		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE A&S Environmental CAMP LEJEUNE, NC 28547 mgmt. Dept. Generator's Phone (910) 451-5062						A. State Manifest Document Number MI 3941574							
5. Transporter 1 Company Name RUBBIE D. WOOD						C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone (205) 744-895							
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49350 N. I-94 SERVICE DR. Belleville, MI 48111						G. State Facility's ID							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. HAZARDOUS WASTE SOLID, N.O.S., X NA307, PG III (DDT, DDD)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N/H	
J. Additional Descriptions for Materials Listed Above A. PLEASE ADD U.S. EPA WASTE CODE 4061 APPROVAL # 032896M9						K. Handling Codes for Wastes Listed Above a/ / b/ / c/ / d/ /							
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER Guide Book #A)31 24HR. Emergency Response 182305													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name TSMORRIS						Signature <i>T.S. Morris</i>		Date 06/04/96					
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name JOE WALLACE		Signature <i>Joe Wallace</i>		Date 06/05/96			
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name		Signature		Date			
19. Discrepancy Indication Space 80 AM													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Printed/Typed Name JAMES A. VIGNASS II		Signature <i>James A. Vignass II</i>		Date 06/06/96			

MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7680 AND THE NATIONAL RESPONSE

MILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, ER AT 1-800-424-9802 24 HOURS PER DAY.

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1987
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 section 299 54R MCL or Section 10 of
 Act 136, P.A. 1969

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Form Approved. OMB No. 2050-1039 Expires 9-30

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI16117010225180101409		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address Camp Lejeune US Marine Corps Base Camp Lejeune, NC 28547				Commanding General Act's Environmental Mgmt. Dept.				A. State Manifest Document Number MI 3941575			
4. Generator's Phone (910) 451-5063				ATTN. Tom Morris				B. State Generator's ID			
5. Transporter 1 Company Name Robbie D Wood				6. US EPA ID Number AL101617113181891		C. State Transporter's ID		D. Transporter's Phone (205) 744-844			
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone			
9. Designated Facility Name and Site Address Michigan Disposal Inc. 49350 N. I-94 Service Dr. Belleville, MI 48111				10. US EPA ID Number MI1066171138891		G. State Facility's ID		H. Facility's Phone (313) 699-7120			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).						12. Containers		13. Total Quantity		14. Unit No.	15. Waste No.
a. RA HAZARDOUS WASTE SOLID, N.O.S., 9, X NA 3077, PG III (DOT, DDD)						No. Type		Quantity		Wt/Vol	N/H
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above A. PLEASE EPA WASTE CODE LABELING APPROVAL # 032896 MA						K. Handling Codes for Wastes Listed Above		a/ /		b/ /	c/ /
15. Special Handling Instructions and Additional Information IF spill occurs, Refer to ER Guide Book # A131 24 Hour Emergency Response (200) 424-93											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. #182228											
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name TSMORRIS						Signature TSMorris			Date 060696		
17. Transporter 1 Acknowledgement of Receipt of Materials											
Printed/Typed Name William M Witt						Signature Michael Witt			Date 016096		
18. Transporter 2 Acknowledgement of Receipt of Materials											
Printed/Typed Name						Signature			Date		
19. Discrepancy Indication Space 8B G9											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.											
Printed/Typed Name RODERICK MOORE						Signature Roderick Moore			Date 060696		

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

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1969
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 section 299 548 MCL or Section 10 of
 Act 136, P.A. 1969

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MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NC 61170022580101410		Manifest Document No.		2. Page 1 of 1		Information in the shaded area is not required by Federal law.					
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547				Commanding General ACIS ENVIRONMENTAL Mgmt. Dept. ATTN: TOM MORRIS		A. State Manifest Document Number MI 3941576							
4. Generator's Phone ()				6. US EPA ID Number ALID0617V3889V		B. State Generator's ID							
5. Transporter 1 Company Name ROBB, C. D. WOOD				8. US EPA ID Number		C. State Transporter's ID							
7. Transporter 2 Company Name				10. US EPA ID Number		D. Transporter's Phone (205) 744-88							
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 40350 N. J-94 SERVICE DR. Belleville, MI 48111				10. US EPA ID Number MID1000724831		E. State Transporter's ID							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. X RO HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG# (DOT, 000)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
				001010141700		P		U0604		F3			
J. Additional Descriptions for Materials Listed Above A. PLEASE ADD U.S. EPA WASTE code U061 APPROVAL # 032896MR				K. Handling Codes for Wastes Listed Above				a/ /		b/ /		c/ /	
								d/ /					
15. Special Handling Instructions and Additional Information #A) 31 24 HOUR EMERGENCY RESPONSE (300) 424													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR: if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name TSMORRIS				Signature <i>T. Morris</i>				Date 060598					
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name Rick Lynch				Signature <i>Rick Lynch</i>				Date 060598					
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name				Signature				Date					
19. Discrepancy Indication Space 8B A7													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name James W. Conas Jr.				Signature <i>James W. Conas Jr.</i>				Date 0606198					

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Failure to file this manifest in accordance with section 299.545 MCL or Section 299.546 Act 136 PA 1969

Form Approved OMB No 2050-0039 Expires 9-30-99

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UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No. <u>MI 16117010121512101117</u>		Manifest Document No. <u>011417</u>		2 Page 1 of <u>1</u>		Information in the shaded areas is not required by law			
3. Generator's Name and Mailing Address <u>CAMP LEJEUNE 4.5 MARINE CORPS BASE CAMP LEJEUNE, NC 28547</u>				Commanding General Act's Environmental Mgmt. Dept.				A. State Manifest Document Number <u>MI 3905292</u>			
4. Generator's Phone (Area) <u>(919) 451-2002</u>				6. US EPA ID Number <u>LA1001171121911</u>				B. State Generator's ID			
5. Transporter 1 Company Name <u>Barrie D. Wood Inc.</u>				8. US EPA ID Number				C. State Transporter's ID			
7. Transporter 2 Company Name								D. Transporter's Phone <u>(905) 744-24</u>			
9. Designated Facility Name and Site Address <u>Michigan Disposal, Inc 49350 N I-94 SERVICE DRIVE Belle Isle MI 48111</u>				10. US EPA ID Number <u>MI 16117010121512101117</u>				E. State Transporter's ID		F. Transporter's Phone	
								G. State Facility's ID		H. Facility's Phone <u>(313) 699-7120</u>	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers		13. Total Quantity		14. Waste Unit No.	
a. <u>RQ HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG III (DOT, DDD)</u>						No. <u>1</u> Type <u>DRUM</u>		<u>48720</u>		P <u>ER 610</u>	
b.											
c.											
d.											
15. Additional Descriptions for Materials Listed Above <u>Please also add U.S. EPA waste code 4061 APPROVAL # 032296 MB</u>						K. Handling Codes for Wastes Listed Above		a/ <u>1</u>		b/ <u>1</u>	
								c/ <u>1</u>		d/ <u>1</u>	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.						IF SPILL OCCURS, REFER TO ER-Guide Book #A) 31 24 Hour Emergency Response # (233) 424?					
17. Transporter 1 Acknowledgement of Receipt of Materials						Signature <u>[Signature]</u>		Date <u>10/11/96</u>			
18. Transporter 2 Acknowledgement or Receipt of Materials						Signature <u>[Signature]</u>		Date <u>10/11/96</u>			
19. Discrepancy Indication Space <u>CB Camp</u>						MDZ Received 49180 LBS 47 25 tons					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						Signature <u>[Signature]</u>		Date <u>10/06/96</u>			

MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7860 AND THE NATIONAL RESPONSE

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM AT 1-800-424-8802 24 HOURS PER DAY.

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Form Approved OMB No. 2050-0039 Expires 9-30-94
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MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE

UNIFORM HAZARDOUS WASTE MANIFEST		Generator's US EPA ID No MICH11701012121581901415		Manifest Document No 2		Page 1 of 1		Information in the shaded areas is not required by Federal law									
3. Generator's Name and Mailing Address CAMP LEJEUNE U.S. MARINE CORPS BASE CAMP LEJEUNE, NC				Commanding General				A. State Manifest Document Number MI 3905293									
4. Generator's Phone (919) 451-2995062				ATTN. Tom Morris				B. State Generator's ID									
5. Transporter 1 Company Name ROBBIE D. WOOD, INC.				6. US EPA ID Number IA1110167113181911				C. State Transporter's ID									
7. Transporter 2 Company Name				8. US EPA ID Number				D. Transporter's Phone (205) 744-82									
9. Designated Facility Name and Site Address M. CHIGAN DISPOSAL, INC. 49350 N. I-94 SERVICES DRIVE Belleville, MO 63117				10. US EPA ID Number MD101010171219181311				E. State Transporter's ID									
								F. Transporter's Phone									
								G. State Facility's ID									
								H. Facility's Phone									
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers		13. Total Quantity		14. Unit		15. Waste No.		N/H			
a. X RG HAZARDOUS waste solid, n.o.s., 9, NA57						No. Type		Quantity		Unit		No.		N/H			
b. PG II (DDT, DDD)						01011		AT 6700		1B		4016107					
c.																	
d.																	
16. Additional Descriptions for Materials Listed Above A. PLEASE ADD U.S. EPA Manifest Approval # 03396 MO						K. Handling Codes for Wastes Listed Above a) 1 b) 1 c) 1 d) 1											
15. Special Handling Instructions and Additional Information 2 - spill occurs, refer to ER-G... #A)31 24 Hour Emergency Response # (221) 424-930																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name TS MORRIS												Signature <i>TS Morris</i>			Date Month Day Year 10 6 95 7 16		
17. Transporter 1 Acknowledgement of Receipt of Materials																	
Printed/Typed Name Marvin Murphy												Signature <i>Marvin Murphy</i>			Date Month Day Year		
18. Transporter 2 Acknowledgement or Receipt of Materials																	
Printed/Typed Name												Signature			Date Month Day Year		
19. Discrepancy Indication Space SB mo																	
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.																	
Printed/Typed Name JAMES A. VIGIASS												Signature <i>James A. Vigias</i>			Date Month Day Year 10 6 95 7 16		



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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1979, as amended and Act 136, P.A. 1969

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Form Approved. OMB No. 2050-0039 Expires 9-3

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. NIC161117100121215801014116		Manifest Document No. 14116		2. Page 1 of 1		Information in the shaded areas is not required by law.			
3. Generator's Name and Mailing Address CAMPLEX U.S. MARINE CORPS B&E CAMPLEX INC, NC 28542		COMMANDING GENERAL A&S ENVIRONMENTAL Mgmt. Dept. ATTN: TOM MORRIS		A. State Manifest Document Number MI 4046932		B. State Generator's ID					
4. Generator's Phone 910 1451-5063		5. Transporter 1 Company Name Robbie D. Wood, Inc		6. US EPA ID Number AL1010161711318181911		C. State Transporter's ID		D. Transporter's Phone (205)744-2444			
7. Transporter 2 Company Name		8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone					
9. Designated Facility Name and Site Address Michigan Disposal, Inc. 49350 N I-94 Service Drive Belleville, MI 48111		10. US EPA ID Number MI21010107121481311		G. State Facility's ID		H. Facility's Phone (313)699-7120					
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID NUMBER) HM				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N/A	
a. <input checked="" type="checkbox"/> RQ HAZARDOUS waste solid, N.O.S., NA3077 PG III (DOT, DDD)				20110143380		P		41060		H	
b.											
c.											
d.											
J. Additional Descriptions for Materials Listed Above A - Please Add U.S. EPA waste code used Approval # 032806 MQ				K. Handling Codes for Wastes Listed Above				a/ 1 b/ 1 c/ 1 d/ 1			
15. Special Handling Instructions and Additional Information IF spill occurs, refer to ER (Guide Book) 24HR. EMERGENCY Response # (800)424-9300											
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 182483 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.											
Printed/Typed Name T. MORRIS				Signature <i>T. Morris</i>				Date 06/06/96			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date							
Printed/Typed Name Richard BARNETT				Signature <i>Richard Barnett</i>				Date 06/06/96			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date							
Printed/Typed Name				Signature				Date			
19. Discrepancy Indication Space											
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.											
Printed/Typed Name James A. Vigross				Signature <i>James A. Vigross</i>				Date 6/8/96			

ALL WASTES MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN JAN AT 1-800-292-4708 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Failure to file is punishable under Section 299 548 MCL or Section 10 of Act 136, P.A. 1989

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Form Approved OMB No. 2050 0039 Expires 9-30

1. Generator's US EPA ID No. **MICH111701022151810011717** Manifest Document No. **1717** 2. Page 1 of 1 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address **CAMP LE JEUNE MARINE CORPS BASE CAMP LE JEUNE, NC 28547** **Commanding General A&S Environment & Air Mgmt DEPT.** A. State Manifest Document Number **MI 4046933**

4. Generator's Phone **910 1451-5068** **ATTN: Tom MORRIS** B. State Generator's ID

5. Transporter 1 Company Name **Robbie D. Wood** 6. US EPA ID Number **AL1D10161711318181911** C. State Transporter's ID D. Transporter's Phone

7. Transporter 2 Company Name 8. US EPA ID Number E. State Transporter's ID **(205) 744-8444** F. Transporter's Phone

9. Designated Facility Name and Site Address **MICHIGAN DISPOSAL INC. 49350 N. J-94 SERVICE DRIVE Belleville, MI 48111** 10. US EPA ID Number **MI1D010017121481311** G. State Facility's ID H. Facility's Phone **(313) 699-7120**

a.	11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).	12. Containers		13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	N/H
		No.	Type				
X	RQ HAZARDOUS waste solid, N.O.S., 9, NA001 (Pesticide, DOT)	1	44	0800 P	41060 H		
b.							
c.							
d.							

J. Additional Descriptions for Materials Listed Above **A. Please Add U.S. EPA Waste Code: U001 APPROVAL # 032896 MO** K. Handling Codes for Wastes Listed Above **a/ 1 b/ 1 c/ 1 d/ 1**

15. Special Handling Instructions and Additional Information **IF SPILL OCCURS, REFER TO ER (Guide Book A) 31 24 HOUR Emergency Response # (202) 471-932**

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name **TS MORRIS** Signature **[Signature]** Date **06/06/96**

17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name **George Parker** Signature **[Signature]** Date **06/06/96**

18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name Signature Date

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name **JAMES A. V. JESSA** Signature **[Signature]** Date **06/08/96**

MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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Form Approved OMB No. 2050-0039 Expires 9-3

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 161171010212518101014118		Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Commanding General Camp Lejeune Marine Corps Base Camp Lejeune, NC 28542 Dept				A. State Manifest Document Number MI 4046934		B. State Generator's ID	
4. Generator's Phone 919 351 5600 ATTN: TOM MORRIS				6. US EPA ID Number AL10101617113181911		C. State Transporter's ID	
5. Transporter 1 Company Name Robbie D. Wood				8. US EPA ID Number		D. Transporter's Phone	
7. Transporter 2 Company Name				10. US EPA ID Number		E. State Transporter's ID (205) 744-8	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 4930 N. I-94 SERVICE DRIVE Belleville, MI 48111				12. Containers No. Type		13. Total Quantity	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. X RO HAZARDOUS WASTE SOLID, N.O.S., 9, NA3077, PG III (DDO, DOT)				14. Unit Wt/Vol		I. Waste No. N/A	
J. Additional Descriptions for Materials Listed Above A. Please Add U.S. EPA Waste Code U001 Approval # 030896 MQ				K. Handling Codes for Wastes Listed Above		a/ 1 b/ 1 c/ 1 d/ 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER (Guide Book # 31) 24 HOUR Emergency Response (w) 924-9							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR; if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name T S MORRIS				Signature <i>T S Morris</i>		Date 06/06/96	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name WILLIE FORTNER		Signature <i>Willie Fortner</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				Printed/Typed Name James A. Vignass		Signature <i>James A. Vignass</i>	
						Date 06/28/96	

MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 617-373-7680 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.

UNAD
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

DO NOT WRITE IN THIS SPACE
ATT. DIS. REJ. PR.

Failure to file is punishable under
section 209 548 MCL or Section 10 of
Act 136, P.A. 1969

Please print or type. Form Approved. OMB No. 2050 0039 Expires 9-30

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM IN MICHIGAN AT 1-800-292-4708 OR OUT OF STATE AT 617-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-9802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 6117010212518010114119	Manifest Document No. 19	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.		
3. Generator's Name and Mailing Address Camp Lejeune U.S. MARINE CORPS BASE Dept. NIS ENVIRONMENTAL Camp Lejeune, NC 28547		Commanding General Nmnt. Dept. ATTN: TOM MORRIS		A. State Manifest Document Number MI 4046935	B. State Generator's ID		
4. Generator's Phone 910 1451-5068		5. Transporter 1 Company Name Robbie D. Wood		C. State Transporter's ID	D. Transporter's Phone (205) 744-244		
7. Transporter 2 Company Name		6. US EPA ID Number IAKID101617113181911		E. State Transporter's ID	F. Transporter's Phone		
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL, INC. 49350 N. F-94 SERVICE DRIVE Belle Isle, MI 48111		10. US EPA ID Number MI IN 060171248311		G. State Facility's ID	H. Facility's Phone (313) 699-7120		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No. N/H		
a. RQ HAZARDOUS waste solid, n.o.s., 9, NA 3077 PG III (DOT, DDD)		001101148720		P 41060 H			
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above A. Please Add EPA Waste Code 41061 APPROVAL # 030896 MQ		K. Handling Codes for Wastes Listed Above		a/ /	b/ /		
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER (Guide Book) A#31 24 HR. Emergency Response (202) 424-7221				c/ /	d/ /		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name T. S. MORRIS		Signature <i>T. S. Morris</i>		Date 06/06/96			
17. Transporter 1 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name STEVEN N.C. BROWN		Signature <i>Steven N.C. Brown</i>		Date 06/06/96			
18. Transporter 2 Acknowledgement of Receipt of Materials				Date			
Printed/Typed Name		Signature		Date			
19. Discrepancy Indication Space NO RECEIVED 429240 LBS AT ZETON							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				Date			
Printed/Typed Name James M. Gomez		Signature <i>James M. Gomez</i>		Date 07/07/96			

MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. DIS. REJ. PR.

Failure to file is punishable under section 299 548 MCL or Section 10 of Act 136, P.A. 1989

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GENERATOR MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-282-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI16111701022158101011420	Manifest Document No. 01011420	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Camp LeJeune U.S. MARINE CORPS BASE CAMP LEJEUNE, NC 28547			A. State Manifest Document Number MI 4046936		B. State Generator's ID	
4. Generator's Phone (910) 191-5068			ATTN. TOM MORRIS			
5. Transporter 1 Company Name R.R.C. D. WOOD		6. US EPA ID Number MI1010617V131818911	C. State Transporter's ID		D. Transporter's Phone (205) 794-844	
7. Transporter 2 Company Name		8. US EPA ID Number	E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49350 N. I-94 SERVICE DR. Belleville, MI 48111		10. US EPA ID Number MI000012483V	G. State Facility's ID		H. Facility's Phone (313) 699-7120	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	I. Waste No. NH	
a. <input checked="" type="checkbox"/> RG HAZARDOUS WASTE SOLID, N.O.S., 9, NA 3077 PG III (ODT, ODD)		001	DT 3A 8,800 P	4060 H		
b.						
c.						
d.						
J. Additional Descriptions for Materials Listed Above A - PLEASE ADD EPA WASTE CODE LIGHT APPROVAL # 032896 MD			K. Handling Codes for Wastes Listed Above		a/ 1 b/ 1 c/ 1 d/ 1	
15. Special Handling Instructions and Additional Information JF SPILL OCCURS, REFER TO ER (GUIDEBOOK A)* 31 24HR EMERGENCY RESPONSE # (313) 421-7300						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. 182448						
Printed/Typed Name TS MORRIS			Signature <i>[Signature]</i>		Date 10/06/96	
17. Transporter 1 Acknowledgement of Receipt of Materials			Printed/Typed Name RODNEY GLENN		Signature <i>[Signature]</i>	
			Signature		Date 10/06/96	
18. Transporter 2 Acknowledgement of Receipt of Materials			Printed/Typed Name		Signature	
			Signature		Date	
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					Date	
Printed/Typed Name JAMES A. VIGNASSI			Signature <i>[Signature]</i>		Date 10/06/96	

UNRECYCLED
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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Failure to file is punishable under Section 299-548 MCL or Section 10 of Act 136, P.A. 1989

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MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI C61170101225181021423		Manifest Document No. 11423		2. Page 1 of 1		Information in the shaded area is not required by Federal law.	
3. Generator's Name and Mailing Address CAMP LEJEUNE 45 MARINE CORPS BASE CAMP LEJEUNE, NC 28547				Commanding General Acts Environmental Mgmt. Dept. Attn: Tom Morris		A. State Manifest Document Number MI 4046938			
4. Generator's Phone (910) 1431-5060				5. Transporter 1 Company Name Robbie D. Wood		6. US EPA ID Number AL101017113117V		B. State Generator's ID	
7. Transporter 2 Company Name				8. US EPA ID Number		C. State Transporter's ID		D. Transporter's Phone (252) 744-34	
9. Designated Facility Name and Site Address Michigan Disposal Inc. 4735 N. I-77 Service Dr. Bellville, MI 48111				10. US EPA ID Number MI10610171214B1311		E. State Transporter's ID		F. Transporter's Phone	
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER).				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. X RQ HAZARDOUS waste solid, N.O.S., 9, (N307) PC III (DOT, ADD)				0211 017		441722		P 40610	
b.									
c.									
d.									
J. Additional Descriptions for Materials Listed Above A. Please ADD US EPA waste code Approval # 032296 JMA				K. Handling Codes for Wastes Listed Above		a/ 1		b/ 1	
						c/ 1		d/ 1	
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ER (CAMP LEJEUNE A) # 24 Hour Emergency Response # (910) 431-9121									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name T & MORRIS				Signature T & Morris				Date 06/07/91	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name Thomas A Epperson				Signature Thomas A Epperson				Date 06/07/91	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name				Signature				Date	
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.									
Printed/Typed Name James A. Vignass				Signature James A. Vignass				Date 06/08/91	

DNR
MICHIGAN DEPARTMENT
OF NATURAL RESOURCES

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1989.
Failure to file is, punishable under
section 229-248 MCL or section 10 of
Act 136, P.A. 1989

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UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 611710102121518101014251		Manifest Document No. 14251		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.									
3. Generator's Name and Mailing Address Sentry 2112 E. ...						A. State Manifest Document Number MI 4046941											
4. Generator's Phone () ...						B. State Generator's ID											
5. Transporter 1 Company Name Robbie ...				6. US EPA ID Number VA21D101G171131881911		C. State Transporter's ID		D. Transporter's Phone () ...									
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone									
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49550 N. Z-94 SERVICE DR. B. Howell, MI 48111						10. US EPA ID Number MIWA000071214181311		G. State Facility's ID									
						H. Facility's Phone 313-699-7120											
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER)						12. Containers		13. Total		14. Unit		15. Waste					
						No. Type		Quantiv		Wt/Vol		No. N/H					
a. <input checked="" type="checkbox"/> R2 HAZARDOUS WASTE SOLID, N.O.S., 9, PC III (DOT, PDA)						201 DOT 41913 210 P		41060 H									
b.																	
c.																	
d.																	
J. Additional Descriptions for Materials Listed Above PLEASE Add U.S. EPA Waste code 2061 APPROVAL TO S2506 TMO						K. Handling Codes for Wastes Listed Above		a/ -1		b/ -1		c/ -1		d/ -1			
15. Special Handling Instructions and Additional Information IF SPILL OCCURS, REFER TO ERG GUIDE BOOK P. 431 24 HOUR EMERGENCY RESPONSE (601) 641-3...																	
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.																	
Printed/Typed Name TS MORRIS						Signature [Signature]		Date 06 07 96									
17. Transporter 1 Acknowledgement of Receipt of Materials																	
Printed/Typed Name WILLIE FORTNER						Signature [Signature]		Date 06 07 96									
18. Transporter 2 Acknowledgement of Receipt of Materials																	
Printed/Typed Name						Signature		Date									
19. Discrepancy Indication Space 10A 02																	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19																	
Printed/Typed Name [Name]						Signature [Signature]		Date 06 12 96									

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 817-373-7660 AND THE NATIONAL RESPONDER AT 1-800-424-8802 24 HOURS PER DAY.



MICHIGAN DEPARTMENT OF NATURAL RESOURCES

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ATT. DIS. REJ. PR.

1975, as amended and Act 136, P.A. 1969.
Failure to file is punishable under section 299.548 MCL or Section 10 of Act 136, P.A. 1969.

Please print or type.

Form Approved. OMB No. 2050-0039 Expires 9-30-96

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. MI 1611710P1212380B1424		Manifest Document No. 4124		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.					
3. Generator's Name and Mailing Address CAMP LEWIS 43000 WOODS RD CAMP LEWIS MI 49817 4. Generator's Phone (910) 344-3460						A. State Manifest Document Number MI 4046939							
5. Transporter 1, Company Name Robert D. Wood						B. State Generator's ID							
6. US EPA ID Number MI 1016711381871						C. State Transporter's ID							
7. Transporter 2 Company Name						D. Transporter's Phone (248) 774-4111							
8. US EPA ID Number +						E. State Transporter's ID							
9. Designated Facility Name and Site Address MICHIGAN DISPOSAL INC. 49350 N. I-75 S. WOOD DR. BELLVILLE, MI 48111						F. Transporter's Phone							
10. US EPA ID Number MI 1016711381871						G. State Facility's ID							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and HM ID NUMBER). a. X R2 HAZARDOUS WASTE SOLID, 1, UN 172 PC III (DOT, 1992)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No. N/H	
						0211 01742940		P		40604			
J. Additional Descriptions for Materials Listed Above A. Please Add US EPA Waste Code 1001 Appears 1032396 MA						K. Handling Codes for Wastes Listed Above				a/ 1		b/ 1	
										c/ 1		d/ 1	
15. Special Handling Instructions and Additional Information IF spill occurs, refer to ER (underneath AFS) 24 Hour Emergency Response = (517) 375-1111													
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.													
Printed/Typed Name TS MORRIS						Signature <i>TS Morris</i>						Date 06/07/96	
17. Transporter 1 Acknowledgement of Receipt of Materials													
Printed/Typed Name George Parker						Signature <i>George Parker</i>						Date 06/10/96	
18. Transporter 2 Acknowledgement of Receipt of Materials													
Printed/Typed Name						Signature						Date	
19. Discrepancy Indication Space MDI RECEIVED 43200 LSS AT 2200													
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.													
Printed/Typed Name James M. Combs						Signature <i>James M. Combs</i>						Date 06/14/96	

ALL SPILLS MUST BE REPORTED TO THE MICHIGAN POLLUTION EMERGENCY ALERTING SYSTEM, IN MICHIGAN AT 1-800-292-4706 OR OUT OF STATE AT 517-373-7660 AND THE NATIONAL RESPONSE CENTER AT 1-800-424-8802 24 HOURS PER DAY.

NATURAL RESOURCES
COMMISSIONJERRY C. BARTNIK
KEITH J. CHARTERS
LARRY DEVUNST
PAUL ESSELE
MRS P. HILL
AVIO HOLLI
JOEY M. SPANOJOHN ENGLER, Governor
DEPARTMENT OF NATURAL RESOURCES
STEVENS T MASON BUILDING, PO BOX 30028, LANSING MI 48908-7523
ROLAND HARMES, DirectorREPLY TO:
WASTE MANAGEMENT DIVISION
PO BOX 30281
LANSING MI 48908-7741

April 26, 1995

Mr. David Lusk
The Environmental Quality Company
1349 South Huron Street
P.O. Box 970320
Ypsilanti, Michigan 48197

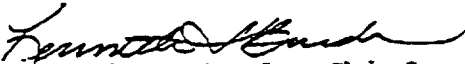
Dear Mr. Lusk:

SUBJECT: Regulatory Status of the Envotech Management Services,
Inc. (EMSI) and Wayne Disposal, Inc. (WDI) Hazardous
Waste Operating Licenses

The term of the hazardous waste operating licenses issued to EMSI and WDI expired on March 30, 1995. The Environmental Quality Company filed timely hazardous waste operating license renewal applications for both facilities. By filing timely renewal applications, the Michigan's Administrative Procedures Act, 1969 PA 306, as amended, allows EMSI and WDI to continue operation under the conditions of their existing licenses until the department makes a final determination on the renewal applications.

If you have any questions, please contact me.

Sincerely,


Kenneth J. Burda, Chief
Hazardous Waste Program Section
Waste Management Division
517-373-0530cc: Ms. Laura Wally, EQ
Mr. Micheal Busse, DNR-Livonia
Mr. Peter Quackenbush, DNR
Ms. Kimberly Bee-Tyson, DNR
HWP C&E File

State of Michigan
Department of Natural Resources

HAZARDOUS WASTE FACILITY
OPERATING LICENSE

Name of Licensee: Michigan Disposal, Inc.
Name of Owner: Michigan Disposal, Inc.
Name of Operator: Michigan Disposal, Inc.
Name of Titleholder of Land: Ford Motor Company
Facility Name: Michigan Disposal, Inc.
Facility Location: 49350 North I-94 Service Drive
Belleville, Michigan 48111
EPA Identification Number: MID 000 724 831
Effective Date: March 30, 1990
Expiration Date: March 30, 1995

Authorized Activities

Pursuant to the Hazardous Waste Management Act, 1979 P.A. 64, as amended and rules promulgated thereunder by the Michigan Department of Natural Resources (MDNR), an operating license is issued to Michigan Disposal, Inc. (hereafter called the licensee) to operate a hazardous waste storage and treatment facility located in Belleville, Michigan, at latitude 42°13'30"N and longitude 083°31'00"W. The licensee is authorized to conduct the following hazardous waste management activities:

<u>XX</u> Storage	<u>XX</u> Treatment	<u> </u> Disposal
<u>X</u> Container	<u>X</u> Tank	<u> </u> Injection Well
<u>X</u> Tank	<u> </u> Surface	<u> </u> Landfill
<u> </u> Waste Pile	<u> </u> Impoundment	<u> </u> Land Application
<u> </u> Surface	<u> </u> Incinerator	<u> </u> Surface
<u> </u> Impoundment	<u> </u> Other	<u> </u> Impoundment

Applicable Regulations:

The conditions of this license were developed in accordance with the applicable provisions of the January 15, 1989 rules under 1979 P.A. 64, as amended:

<u>X</u> Part 2	<u>X</u> R 299.9614	<u> </u> R 299.9623 to
<u>X</u> Part 3	<u>X</u> R 299.9615	<u> </u> R 299.9625
<u>X</u> Part 5	<u> </u> R 299.9616	<u> </u> R 299.9626
<u>X</u> R 299.9601 to	<u> </u> R 299.9617	<u>X</u> R 299.9627
<u> </u> R 299.9611	<u> </u> R 299.9618	<u> </u> Part 7
<u>X</u> R 299.9612	<u> </u> R 299.9619 to	<u> </u> Part 8
<u>X</u> R 299.9613	<u> </u> R 299.9622	

License Approval:

The licensee shall comply with all terms and conditions of this license. This license consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in R 299.9101 through R 299.11008 as specified in the license. Applicable rules are those which are in effect on the date of issuance of this license.

This license is based on the information submitted in the operating license application submitted on January 9, 1986 and any subsequent amendments (hereafter referred to as the application). The facility shall be constructed and/or operated as specified in the application. Any inaccuracies found in this information provides grounds for the revocation or modification of this license (see R 299.9519(6)) and enforcement action. The licensee shall inform the Director of any deviation from or changes in the information in the application which would affect the licensee's ability to comply with the applicable rules or license conditions.

This license is effective on the date of issuance and shall remain in effect for five years from the date of issuance, unless revoked (R 299.9519) or continued in effect as provided by 1969 P.A. 306, as amended, the Michigan Administrative Procedures Act.

Issued this 30th day of March, 1990.

by

Albert Rector
David F. Hales, Director ~~ACTING~~

State of Michigan
Department of Natural Resources

HAZARDOUS WASTE FACILITY
OPERATING LICENSE

Name of Licensee: Wayne Disposal, Inc.
 Name of Owner: Wayne Disposal, Inc.
 Name of Operator: Wayne Disposal, Inc.
 Name of Titleholder of Land: Ford Motor Company
 Facility Name: Wayne Disposal, Inc. Site #2
 Facility Location: 49350 North I-94 Service Dr.
 EPA Identification Number: MID048090633
 Effective Date: March 30, 1990
 Expiration Date: March 30, 1995

Authorized Activities

Pursuant to the Hazardous Waste Management Act, 1979 PA 64, as amended, and rules promulgated thereunder by the Michigan Department of Natural Resources (MDNR), an operating license is issued to Wayne Disposal, Inc. (hereafter called the licensee) to operate a hazardous waste landfill facility located in Belleville, Michigan, at latitude 42°13'30"N and longitude 83°31'00"W. You are authorized to conduct the following hazardous waste management activities:

<input type="checkbox"/> Storage	<input type="checkbox"/> Treatment	<input checked="" type="checkbox"/> Disposal
<input type="checkbox"/> Container	<input type="checkbox"/> Tank	<input type="checkbox"/> Injection Well
<input type="checkbox"/> Tank	<input type="checkbox"/> Surface Impoundment	<input checked="" type="checkbox"/> Landfill
<input type="checkbox"/> Waste Pile	<input type="checkbox"/> Incinerator	<input type="checkbox"/> Land Application
<input type="checkbox"/> Surface	<input type="checkbox"/> Other	<input type="checkbox"/> Surface
<input type="checkbox"/> Impoundment		<input type="checkbox"/> Impoundment

Applicable Regulations:

The conditions of this license were developed in accordance with the applicable provisions of the September 6, 1985 rules under 1979 PA 64:

<input checked="" type="checkbox"/> Part 2	<input type="checkbox"/> R 299.9614	<input type="checkbox"/> R 299.9623 to R 299.9625
<input type="checkbox"/> Part 3	<input type="checkbox"/> R 299.9615	<input type="checkbox"/> R 299.9626
<input checked="" type="checkbox"/> R 299.9601 to R 299.9611	<input type="checkbox"/> R 299.9616	<input checked="" type="checkbox"/> Part 7
<input checked="" type="checkbox"/> R 299.9612	<input type="checkbox"/> R 299.9617	<input type="checkbox"/> Part 8
<input checked="" type="checkbox"/> R 299.9613	<input type="checkbox"/> R 299.9618	
	<input checked="" type="checkbox"/> R 299.9619 to R 299.9622	

License Approval:

The licensee shall comply with all terms and conditions of this license. This license consists of the conditions contained herein (including those in any attachments) and the applicable regulations contained in R 299.9101 through R 299.11008 as specified in the license. Applicable rules are those which are in effect on the date of issuance of this license.

This license is based on the information submitted in the operating license application submitted on January 9, 1986 and any subsequent amendments (hereafter referred to as the application). The facility shall be constructed and/or operated as specified in the application. Any inaccuracies found in this information provides grounds for the revocation or modification of this license (see R 299.9519(6)) and enforcement action. The licensee shall inform the Director of any deviation from or changes in the information in the application which would affect the licensee's ability to comply with the applicable rules or license conditions.

This license is effective on the date of issuance and shall remain in effect for five years from the date of issuance, unless revoked (R 299.9519) or continued in effect as provided by 1969 P.A. 306, as amended, the Michigan Administrative Procedures Act.

Issued this 30th day of March, 1990.

by

Albert Rector
David F. Hales, Director AD:MG



ACCEPTABLE HAZARDOUS WASTE CODES

MICHIGAN DISPOSAL WASTE TREATMENT PLANT AND WAYNE DISPOSAL HAZARDOUS WASTE LANDFILL

D001 ²	D014	D027	D040	F001	F019	K001	K014	K026	K038	K051	K084	K098	K111	K131 ²
D002	D015	D028	D041	F002	F034	K002	K015	K027 ¹	K039	K052	K085	K100	K112	K132 ²
D003 ¹	D016	D029	D042	F003	F035	K003	K016	K028	K040	K060	K086	K101	K113	K136
D004	D017	D030	D043	F004	F037	K004	K017	K029	K041	K061	K087	K102	K114	K141
D005	D018	D031		F005	F038	K005	K018	K030	K042	K062	K088	K103	K115	K142
D006	D019	D032		F006	F039	K006	K019	K031	K044 ¹	K064	K090	K104	K116	K143
D007	D020	D033		F007		K007	K020	K032	K045 ¹	K065	K091	K105	K117	K144
D008	D021	D034		F008		K008	K021	K033	K046	K066	K093	K106	K118	K145
D009	D022	D035		F009		K009	K022	K034	K047 ¹	K069	K094	K107	K123	K147
D010	D023	D036		F010		K010	K023	K035	K048	K071	K095	K108	K124	K148
D011	D024	D037		F011		K011	K024	K036	K049	K073	K096	K109	K125	K149
D012	D025	D038		F012		K013	K025	K037	K050	K083	K097	K110	K126	K150
D013	D026	D039												K151

Treatment Residues, Contaminated Debris, Spills

P001	P009	P016	P024	P033	P041	P048	P058	P066	P073	P082	P093	P101	P109	P116
P002	P010	P017	P026	P034	P042	P049	P059	P067	P074	P084	P094	P102	P110	P118
P003	P011	P018	P027	P036	P043	P050	P060	P068	P075	P085	P095	P103	P111	P119
P004	P012	P020	P028	P037	P044	P051	P062	P069	P076	P087	P096	P104	P112	P120
P005	P013	P021	P029	P038	P045	P054	P063	P070	P077	P088	P097	P105	P113	P121
P006	P014	P022	P030	P039	P046	P056	P064	P071	P078	P089	P098	P106	P114	P122
P007	P015	P023	P031	P040	P047	P057	P065	P072	P081	P092	P099	P108 ²	P115	P123
P008														
U001	U018	U034	U051	U069	U085	U102	U118	U133	U149	U164	U180	U196	U214	U235
U002	U019	U035	U052	U070	U086	U103	U119	U134	U150	U165	U181	U197	U215	U236
U003	U020	U036	U053	U071	U087	U105	U120	U135	U151	U166	U182	U200	U216	U237
U004	U021	U037	U055	U072	U088	U106	U121	U136	U152	U167	U183	U201	U217	U238
U005	U022	U038	U056	U073	U089	U107	U122	U137	U153	U168	U184	U202	U218	U239
U006	U023	U039	U057	U074	U090	U108	U123	U138	U154	U169	U185	U203	U219	U240
U007	U024	U041	U058	U075	U091	U109	U124	U140	U155	U170	U186	U204	U220	U243
U008	U025	U042	U059	U076	U092	U110	U125	U141	U156	U171	U187	U205	U221	U244
U009	U026	U043	U060	U077	U093	U111	U126	U142	U157	U172	U188	U206	U222	U246
U010	U027	U044	U061	U078	U094	U112	U127	U143	U158	U173	U189	U207	U223	U247
U011	U028	U045	U062	U079	U095	U113	U128	U144	U159	U174	U190	U208	U225	U248
U012	U029	U046	U063	U080	U096	U114	U129	U145	U160	U176	U191	U209	U226	U249
U014	U030	U047	U064	U081	U097	U115	U130	U146	U161	U177	U192	U210	U227	U328
U015	U031	U048	U066	U082	U098	U116	U131	U147	U162	U178	U193	U211	U228	U353
U016	U032	U049	U067	U083	U099	U117	U132	U148	U163	U179	U194	U213	U234	U359
U017	U033	U050	U068	U084	U101									
001D	001K	001U	012U	024U	036U	048U	059U	074U	088U	099U	112U	122U	137U	148U
003D	002K	002U	013U	025U	037U	049U	061U	075U	089U	100U	113U	124U	138U	150U
		003U	014U	027U	038U	050U	063U	076U	090U	101U	114U	127U	139U	151U
		004U	015U	028U	040U	051U	064U	077U	092U	102U	115U	128U	140U	152U
		005U	016U	029U	041U	052U	065U	078U	093U	103U	116U	129U	141U	153U
		006U	017U	030U	042U	054U	068U	079U	094U	104U	117U	131U	142U	154U
		007U	020U	031U	043U	055U	070U	080U	095U	106U	118U	132U	143U	155U
		008U	021U	032U	044U	056U	071U	082U	096U	108U	119U	134U	144U	
		009U	022U	033U	046U	057U	072U	083U	097U	110U	120U	135U	146U	
		011U	023U	034U	047U	058U	073U	086U	098U	111U	121U	136U	147U	

Notes:

1. Reactive wastes acceptable only after deactivation (D003, K027, K044, K045 and K047).
2. Listings for Michigan Disposal Waste Treatment Plant and Wayne Disposal Hazardous Waste Landfill are identical, except, P108 is acceptable only at the landfill and D001, K131 and K132 are acceptable only at the waste treatment plant.

Appendix D
Disposal Certification

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3905294

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046901

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 404 4905

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046906

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046907

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046902

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4040910

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 4040911

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

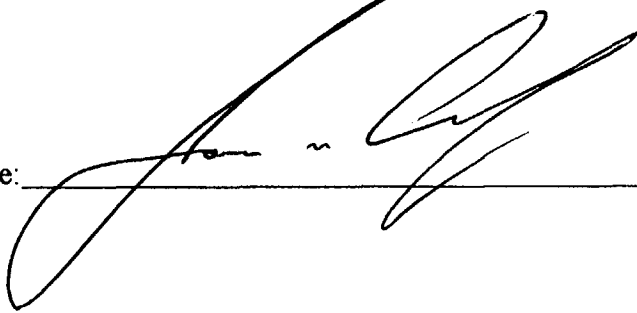
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046912

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME: Michigan Disposal Waste Treatment Plant (EPA I.D. # MID000724831) Wayne Disposal, Inc. (EPA I.D. # MID048090633)
(Please check one)

ADDRESS: 49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER: 1-800-592-5489

FAX NUMBER: 1-800-592-5329

Authorized Signature: _____

5 CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 390C290

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

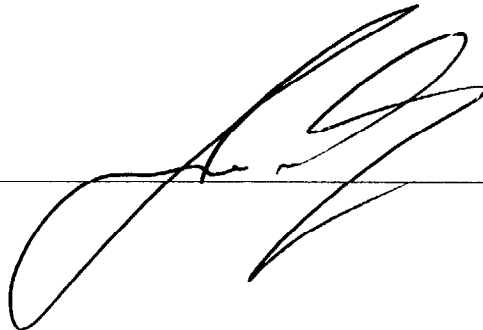
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3905296

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3905297

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3905299

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 390 306

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3905305

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 3905304

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

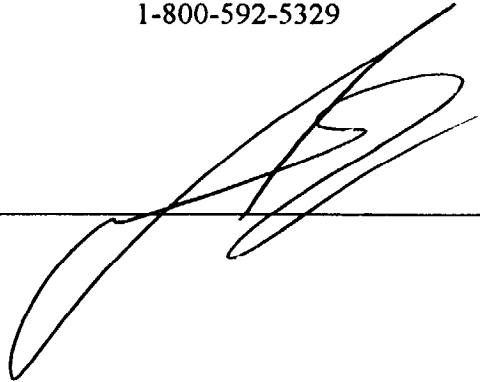
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 390 5303

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

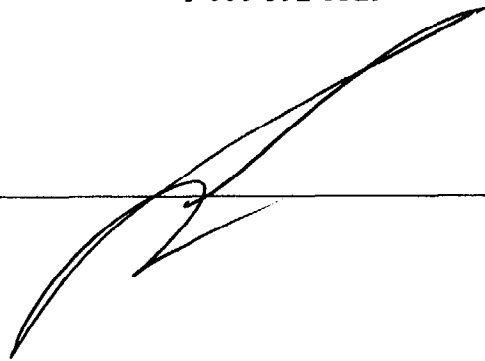
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 3707302

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

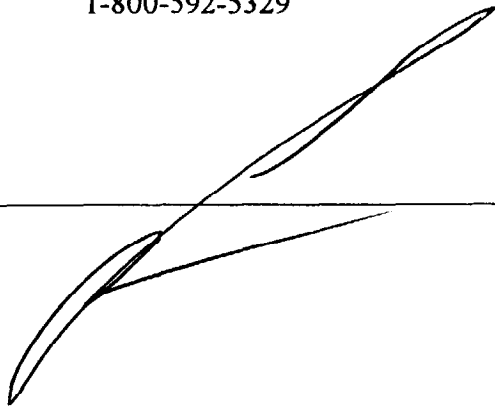
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 3905301

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

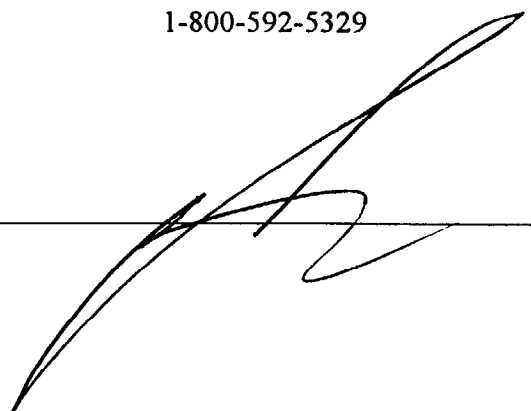
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219200

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219799

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219767

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219798

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219797

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219788

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219790

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4219791

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046946

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4646947

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 394173

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3941074

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3941570

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 2946576

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 390292

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 3905293

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4040937

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046933

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 404093C

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

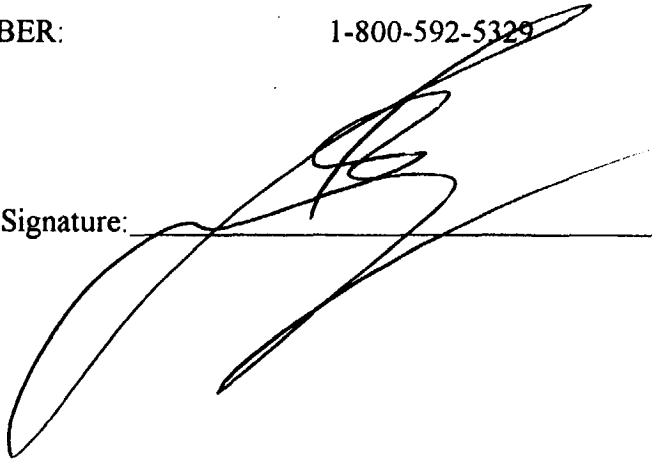
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046935

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 4046930

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 404693E

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL



This certificate is to verify the wastes specified on Manifest # 404041

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____

CERTIFICATE OF DISPOSAL

This certificate is to verify the wastes specified on Manifest # 4046939

have been properly disposed of in accordance with all local, state and federal regulations.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40 CFR et seq.

FACILITY NAME:
(Please check one)

Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Belleville, Michigan 48111

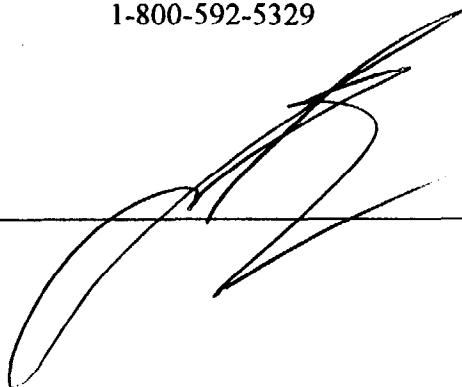
PHONE NUMBER:

1-800-592-5489

FAX NUMBER:

1-800-592-5329

Authorized Signature: _____



THE ENVIRONMENTAL QUALITY COMPANY 49350 N. I-94 SERVICE DRIVE BELLEVILLE MICHIGAN 48111

Appendix E
QC Documentation

Baker

Baker Environmental, Inc.
Airport Office Park, Building 3
420 Rouser Road
Coraopolis, Pennsylvania 15108

May 14, 1996

(412) 269-6000
FAX (412) 269-2002

Commander
Atlantic Division
Naval Facilities Engineering Command
1510 Gilbert Street (Building N-26)
Norfolk, Virginia 23511-2699

Attn: Ms. Katherine Landman
Navy Technical Representative
Code 18232

Re: Contract N62470-89-D-4814
Navy CLEAN, District III
Contract Task Order (CTO) 0274
Operable Unit No. 11 (Site 80)
MCB Camp Lejeune, North Carolina
TCRA Remedial Levels

Dear Ms. Landman:

This letter presents the revisions to the estimated remediation levels chosen for the Time Critical Removal Action (TCRA) at Operable Unit (OU) No. 11 (Site 80), MCB Camp Lejeune, North Carolina. The Department of the Navy (DoN) and Marine Corps, in conjunction with USEPA Region IV and the State of North Carolina, selected remediation levels for the pesticide contaminated soil at Site 80 in December 1995.

The DoN and Marine Corps have considered and adopted changes to the estimated remediation levels to increase the cleanup efficiency and cost-effectiveness while ensuring protection of human health and the environment. The changes in the remediation levels have been agreed to by USEPA Region IV and the State of North Carolina.

Before implementing the soil remedy at Site 80, discussions were held among the DoN, Marine Corps, USEPA Region IV, the State of North Carolina, the design contractor, and the remediation contractor. After a review of the estimated remediation levels, which were estimated based on the human health risk assessment, it was necessary to revise the remediation levels to reduce the volume of soil requiring excavation and disposal. The remediation levels presented in the Basis of Design were based on an ingestion rate of 480 mg/kg, which is a default value provided by the USEPA to be applied to a commercial landscaper. This value was determined to be too conservative given the nature of activities conducted at this site. Consequently, a more plausible ingestion rate of 200 mg/kg was applied. This value is a default published by the USEPA for adult ingestion of soils.

The revised remediation levels are provided as Attachment A. These revised remediation levels will reduce the volume of soil at Site 80 requiring excavation and disposal, thus providing a cost savings while maintaining protection of human health and the environment.



A Total Quality Corporation

Baker

Ms. Katherine Landman
May 14, 1996
Page 2

The DoN, Marine Corps, USEPA Region IV, and State of North Carolina have discussed the revised remediation levels and have concurred.

If you have any comments or questions, please contact me at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.

Matthew D. Bartman

Matthew D. Bartman
Activity Coordinator

MDB/lq

cc: Ms. Lee Anne Rapp, P.E., Code 18312 (letter only)
Ms. Beth Collier, Code 02115 (letter only)
Mr. Neal Paul, IRP Director, MCB Camp Lejeune (w/attachment)
Ms. Gena Townsend, USEPA Region IV (w/attachment)
Mr. Patrick Watters, NC DEHNR (w/attachment)
Mr. Jim Dunn, OHM Corporation (w/attachment)
Lt. Cheryl Hansen, ROICC, MCB Camp Lejeune

Attachment A
Current and Revised Remediation Levels
for Pesticide Contaminated Soils
Operable Unit No. 11 (Site 80)
MCB Camp Lejeune, North Carolina

Contaminant	Current Remediation Level	Revised Remediation Level
Aldrin	35 ug/kg	340 ug/kg
Dieldrin	37 ug/kg	360 ug/kg
4,4'-DDD	2484 ug/kg	2400 ug/kg
4,4'-DDT	1753 ug/kg	1700 ug/kg
Chlordane	459 ug/kg	4400 ug/kg



DEPARTMENT OF THE NAVY
OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
1005 MICHAEL ROAD
CAMP LEJEUNE NC 28547-2521

15319
TELEPHONE NO:
910-451-5821
FAX - 910-451-5899
IN REPLY REFER TO:
N62470-93-D-3032
Delivery Order 0100
JAX/A13/jjy
9 Jul 96

OHM Remediation Services Corporation
5335 Triangle Parkway, Suite 450
Norcross, Georgia 30092

Re: Contract N62470-93-D-3032, Delivery Order 0100, Time Critical Removal
Action for Pesticide Contaminated Soils, Site 80, Marine Corps Base, Camp
Lejeune, North Carolina

Gentlemen:


An inspection of the work on Site 80 (Golf Course) was conducted on 18 June 1996 for the purpose of establishing Government acceptance. The attached Acceptance Report provides a list of the facilities accepted, the attendees present, and the discrepancies noted during the inspection.

You are requested to proceed promptly in the correction of these deficiencies so as not to interfere with the use of the facility by the Government. This office shall be notified when corrective action has been completed in order to verify that work is in accordance with contract requirements. Your firm is expected to complete the work for verification within 30 calendar days. If for some reason the corrective action(s) will not be completed within the 30 day period, your firm shall notify this office, in writing, within 10 calendar days of receipt of this letter.

Government acceptance does not relieve your firm of the responsibility to complete the corrective work, nor does acceptance waive any of the remaining requirements of the referenced contract.

Your continued cooperation is appreciated.

Sincerely,


C. M. HANSEN
LT, CEC, USN
Assistant Officer
in Charge of Construction

Encl:
(1) Government Acceptance Report

Copy to:
Base Maintenance w/o encl.

Quality Performance ... Quality Results

GOVERNMENT ACCEPTANCE REPORT (BOD)

ROICC JAX NC AREA, MCB, CAMP LEJEUNE

513
Swinson
10CS
CH
219

(BOD Acceptance establishes the contract beneficial occupancy date)

DATE: 6/18/96

93-D-3532 DELIVERY ORDER 0100

TIME CRITICAL REMOVAL ACTION FOR PESTICIDE CONTAMINATED SOILS, SITE 80

Building/Facility

Accepted:

SITE 80, (GOLF COURSE)

FOR WARRANTY ADMINISTRATOR

Contractor CHM REMEDIATION SERVICES CORP.

Address 5335 TRIANGLE PARKWAY, SUITE 450
NORCROSS, GEORGIA 30092

Home Office Phone

Contractor's FAX

BOD INSPECTION ATTENDEES (please sign)

BMO/Customer

Contractor

OICC/ROICC

[Signature]

[Signature]

[Signature]

(Attach Punchlist)

COMMENTS: EXIST. TRAILER TO BE RELOCATED BY CONTRACTOR AS DIRECTED BY CONTRACTING OFFICER. SEED ERODED AREAS. GROUT DAMAGED CURB AT WASH PAD.

FINAL COMPLETE CERTIFICATION

I hereby certify that on this date, 7/5/96, all punchlist items have been completed and all O&M manuals have been received from the contractor and transmitted to the maintaining organization(s).

[Signature]
AROICC

CONREP



OHM Remediation
Services Corp.
A Subsidiary of OHM Corporation

15717-4.1

Mr. Patrick Waters
North Carolina DEHNR
401 Oberlin Rd., Suite 150
Raleigh, N C. 27605-1350

Re: Remediation Levels - Site 80 Pesticide Removal Action

Dear Patrick:

As discussed in our teleconference this morning, please find enclosed two drawings which depict the results of the pre-screening which has been performed at Site 80. Above the title block of each drawing we have indicated a level of contamination which has been used to determine whether or not a particular sampling grid is shown clear or shaded.

The drawing with the remediation level of 37 parts per billion represents approximately 1900 tons of material which will require offsite disposal at an estimated cost in excess of \$900,000. The second drawing with the remediation level of 360 parts per billion represents approximately 950 tons of material which will require offsite disposal at an estimated cost of approximately \$633,000.

We trust you will find these drawings beneficial in your review of the Site.

Yours truly,

OHM Remediation Services Corp.

James A. Dunn, Jr., P.E.
Senior Project Manager

pc: Kate Landman, Code 18232
Lt. Cheryl Hansen, AROICC
Neal Paul, EMD/IR

Matt Bartman, Baker
Gena Townsend, EPA

15319-4.1



April 22, 1996

Lt. Cheryl Hansen, AROICC
Navy Technical Representative
1005 Michael Road
Camp Lejeune, N. C. 28542-2521

Re: Contract N62470-93-D-3032
Delivery Order 0100
Notification of Expenditure of 75 Percent of Cost
MCB Camp Lejeune, N.C.

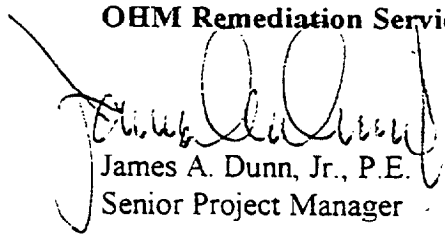
Dear Lt. Hansen:

As per FAR Clause 52.232-20, Limitation of Cost, OHM Remediation Services Corp. (OHM) hereby gives notification that we expect in the next sixty days to incur costs that, when added to all costs previously incurred, will exceed 75 percent of the current estimated cost for Delivery Order 0100.

At this time, OHM anticipates completing this Delivery Order within the budget. However, in the event that additional work scope requests are tendered, additional funding would be required.

Should you have any questions concerning the foregoing, please do not hesitate to contact us.

Yours truly,
OHM Remediation Services Corp.


James A. Dunn, Jr., P.E.
Senior Project Manager

pc: Kate Landman, Code 18232
Ms. Beth Collier, Code 02115
Neal Paul, EMD/IR
John Franz, OHM
Dwayne Currie, OHM
Project File 18319

10-10-96

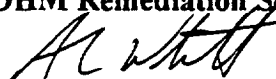
**WEEKLY PROGRESS MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE, N.C.**

APRIL 16, 1996

Attendees: Alan Whitt, OHM
Vann Marshburn, AROICC
Lt. Hansen, AROICC
Tom Morris, EMD/IR
Paul Humphries, EMD/IR
Kate Landman, LANTDIV(phone)

The weekly progress meeting was held at 0900 hours on Tuesday April 16, 1996 in the ROICC offices at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

Respectfully submitted,
OHM Remediation Services Corp.



Alan Whitt
Site Supervisor

pc: All Attendees
John Franz, OHM
Dwayne Currie, OHM
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files - Norcross
All Project Files - Site

D.O. 0100

- Precon meeting scheduled Thursday, 18 April 1996 at 1300 in Building #309.
- OHM has a surveyor locating grid points at the site today.

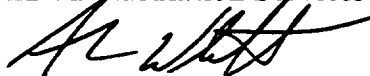
**WEEKLY PROGRESS MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE, N.C.**

MARCH 27, 1996

**Attendees: Alan Whitt, OHM
Vann Marshburn, AROICC
John Cotton, CONREP
Neal Paul, EMD/IR
Paul Humphries, EMD/IR**

The weekly progress meeting was held at 0900 hours on Wednesday, March 27, 1996 in the ROICC offices at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

**Respectfully submitted,
OHM Remediation Services Corp.**



**Alan Whitt
Site Supervisor**

**pc: All Attendees
John Franz, OHM
Dwayne Currie, OHM
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files - Norcross
All Project Files - Site**

D.O. 0100

- **OHM continues on Work Plans to submit to LANTDIV for approval by the end of March.**

**WEEKLY PROGRESS/QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE, N.C.**

JUNE 18, 1996

Attendees: Alan Whitt, OHM
Jim Dunn, OHM
John Franz, OHM
Dwayne Currie, OHM
Lt. Hansen, AROICC
Neal Paul, EMD

The weekly progress/QC meeting was held at 1030 hours on Tuesday, June 18, 1996 in the ROICC office at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

D.O. 0015

* **Plant Start-up.** Alan stated that Southerland Electric continues electric and instrumentation installation at the deep and shallow well houses. Lt. Hansen stated that OHM needs to notify her when official start-up begins. Jim stated that start-up will commence on Monday July 1, 1996, but the official date will be July 8, 1996 because of the holiday falling on Thursday.

* **Mod Status.** Jim asked the status of the Mod for the GWTP and the Biocell. Lt. Hansen said that the funds are set aside and to plan on negotiating next week. **ACTION:** ROICC to schedule a time to negotiate next week.

* **QC Issues.** John asked Lt. Hansen if she had seen the QC review of D.O. 0015. Lt. Hansen said that she had. John said that OHM is addressing the QC issues identified. John asked Lt. Hansen if she had any suggestions. Lt. Hansen suggested changing the format of the meeting minutes to incorporate both QC and production issues. **ACTION:** OHM to address QC issues.

D.O. 0032

* **Mod Status.** Lt. Hansen stated that she might need additional cost breakdowns.

* **Stockpile Sampling.** Alan stated that the initial composite sample from the J.A. Jones stockpile was below clean-up criteria. The State of N.C. requires a composite sample for every 200 CY. The estimated volume is 800 CY so OHM will take additional composite samples. Because of the size of the stockpile OHM will use the excavator and a hand auger to take the composite samples.

D.O. 0044

* **Wetlands Clearing.** Alan stated that OHM would like to begin clearing for the access road on Monday, June 24, 1996. Access is for Baker Environmental to install wells in the wetlands. Jim asked Lt Hansen if she wanted OHM to submit a variance form. John and Dwayne explained the purpose of the form. Lt Hansen said to submit the form. Jim requested that Lt Hansen send a letter directing OHM to perform the work. **ACTION:** OHM submit variance form and ROICC send work directive letter.

D.O. 0078

* **Final Report.** Jim stated that he estimates a July submittal of the Interim Final Report.

* **Budget.** Jim stated that there is approximately \$200,000 remaining that is earmarked for groundwater treatment at the site.

D.O. 0087

* **Final Report.** Jim stated that OHM has submitted the final report.

D.O. 0100

* **Status.** Alan stated that OHM will complete seeding the AOCs today. He is waiting to hear from the maintenance superintendent on where to relocate the trailer.

D.O. 0101

* **Status.** Alan stated that the Precon Meeting was held this morning.

D.O. 0118

* **Status.** Lt Hansen asked Jim if he had completed the estimate for O&M of the North and South plants. Jim said that he has the operation estimated but is still working on the problems associated with the North Plant. He assumed that the South Plant is operating properly. Lt Hansen stated that this delivery order is only for operation of the plants for 90 days. A mod will be issued for rectifying the problems at the North Plant. She will send a RFP specifying the scope to Jim. Jim stated that can he turn the RFP around quickly since operation is suppose to commence July 1, 1996. **ACTION:** ROICC send RFP and OHM respond quickly

OTHER

* Neal stated that there is a soil pile at Building 333 that needs to be transferred to Lot 203. He has the funds to transfer it, but needs it moved as soon as possible. Lt Hansen said that she will talk to Vann about it.

Respectfully submitted,
OHM Remediation Services Corp.

Alan Whitt
Project Supervisor

pc: All Attendees
Kate Landman, LANTDIV
Jerry Haste, COTR
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files, Norcross
All Project Files, Jobsite

D.O. 0100

- Baker Environmental is summarizing details for raising the Dieldrin remediation action level to 360 PPB today. Excavation activities are on hold until the level is raised.

**WEEKLY PROGRESS MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE, N.C.**

MARCH 19, 1996

Attendees: Neal Paul, EMD/IR
Lance Laughmiller, RPM (phone)
Paul Humphries, EMD/IR
Jim Dunn, OHM

Vann Marshburn, AROICC
Kate Landman, RPM (phone)
John Cotton, CONREP

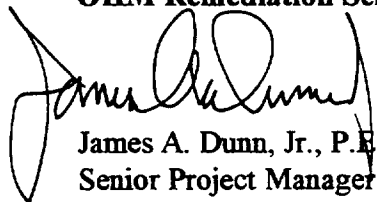
The weekly progress meeting was held at 0900 hours on Tuesday, March 19, 1996 in the ROICC offices at MCB Camp Lejeune. The ensuing pages contain the topical items for each delivery order as they were discussed during the meeting.

Kate Landman advised that Gary McSmith is transferring to the EMD Office at Cherry Point effective April 1, 1996. As a result, Lance Laughmiller will become the NTR for Cherry Point and Kate will assume all Camp Lejeune projects for LANTDIV. Lance will continue involvement in Delivery Order 15 until the revised well locations are finalized.

Neal advised that the RAB had been signed and that we should plan on an initial meeting early in the week of April 15, 1996.

Neal also advised that the base would be funding construction of an additional biocell at Camp Geiger. He will be advising the preferred site to LANTDIV within a month. LANTDIV will then provide a specification and proposal package to OHM for the construction.

Respectfully submitted,
OHM Remediation Services Corp.


James A. Dunn, Jr., P.E.
Senior Project Manager

pc: All Attendees
John Franz, OHM
Dwayne Currie, OHM
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files - Norcross
All Project Files - Jobsite

D. O. 0100

OHM currently anticipates a mid-April commencement of field activities on this Delivery Order.

A teleconference will be conducted at 1300 hours today with the regulators to obtain approval of the remediation goals for subsurface soils prepared by Baker.

The ROICC Office will schedule a Preconstruction Meeting for this project in the near future and request attendance of the MWR representatives. The primary purpose of this meeting will be to provide information concerning the projected activities to the operating personnel of the facility.

OHM currently plans to submit the Work Plans to LANTDIV for approval by the end of March.

QC MEETING MINUTES
NAVY LANTDIV CONTRACT N62470-93-D-3032
MCB CAMP LEJEUNE

February 27, 1996

Attendees:	Alan Whitt	OHM
	Neal Paul	EMD
	John Cotton	ROICC
	Vann Marshburn	ROICC

A QC Meeting was conducted at 1000 hours in conjunction with a review of Camp Lejeune Delivery Order production activities. The following are the topical items discussed from this meeting for each delivery order.

OHM Remediation Services Corp.



Alan Whitt
Project Supervisor

CC: All Attendees
John Franz, OHM
Dwayne Currie, OHM
Mike Gilman, Stone & Webster
Chuck Lawrence, Stone & Webster
All Project Files - Norcross
All Project Files - Jobsite

D.O. 0100

- Jim Dunn has sent in the revised proposal.

**PRECONSTRUCTION MEETING NOTES
TIME CRITICAL REMOVAL ACTION
PESTICIDE CONTAMINATED SOILS
OPERABLE UNIT 11, SITE 80
MCB CAMP LEJEUNE
LANTDIV CONTRACT N62470-93-D-3032
DELIVERY ORDER 100**

April 18, 1996

Attendees:

Lt. Cheryl Hansen, AROICC
Inspector Nichols, Fire Dept.
John Cotton, CONREP
Gary Appleton, Maintenance Superintendent
Alan Whitt, OHM Site Supervisor
Jim Dunn, OHM Project Manager

The meeting was convened at 1000 hours by the moderator, Lt. Cheryl Hansen. The Fire Department representative outlined the procedures to be used in case of an emergency at the site. A discussion was held on the necessity of burn permits and OHM advised that no burning or cutting operations were anticipated to be performed on this delivery order. The representative of the fire department was then excused.

OHM presented an overview of the project. Listed below are the topical items discussed during the meeting.

- OHM identified the initial areas to be excavated as determined by the engineer, Baker Environmental. Further discussion ensued to discuss how the sampling activity planned to be conducted prior to the excavation activities would fully delineate the exact areas to be excavated prior to the commencement of digging activities.
- In the areas identified to be excavated adjacent to the maintenance buildings, OHM will excavate only one area at a time to keep from restricting access to the buildings.
- Alan Whitt will meet later this week with Gary Appleton to find a suitable area for relocation of the office trailer currently in Area of Concern 1-12.
- Alan Whitt will contact base utilities to have all services in the area located prior to the

commencement of any excavation activities.

- OHM will begin mobilizing equipment and procuring initial samples for determination of the extent of contamination this afternoon.
- John Cotton advised Gary Appleton that in the event of any questions or problems with field activities, he was to contact Lt. Hansen for resolution.

CONTRACTOR'S FIRE PREVENTION GUIDE

From: Fire Protection Division (Fire Prevention Section), CamLej, NC

Ref: (a) MCO P11000.11A

(b) BO 11220.1 Base Fire Regulations

(c) EM 386-1-1

1. To report a FIRE or EMERGENCY dial 911, give LOCATION, TYPE OF EMERGENCY, and STAND-BY in safe location to direct fire personnel.
2. Prior to performing "HOT WORKS" (work involving any type of heating or open flame device), the contractor shall request a permit from the Base Fire Dept. ext: 3004.
3. Painting material and flammable liquids (such as paint, rags, dropcloths, paint thinner, etc.) shall be removed from the building daily and stored at least 25' from the building in a suitable locker.
4. At the close of each workday all trash, paper, sawdust, excelsior, and packing material shall be removed from the building and disposed of in appropriate containers away from the building.
5. The storage of lumber and other combustible materials shall be stored outside, at least 25' from structures. Areas surrounding the work site shall be kept clean of all trash.
6. All portable electric devices (saws, sanders, extension cords, etc.) shall be disconnected after use, and if possible the main electric switch deactivated at the close of the workday.
7. The contractor shall post "FIRE BILLS" around the work site and inform all employees of the procedure for reporting a "FIRE or EMERGENCY" prior to commencing the work.
8. All "FIRES", whether extinguished or not shall be promptly reported to the Fire Protection Division.
9. Fire hose and extinguishers shall not be used for any purpose other than a fire. Hydrants shall not be blocked and shall not be used without approval from the Base Fire Dept.
10. Smoking shall be in open areas only. Smoking in attics and concealed spaces is prohibited.
11. Provide 1 (one) construction Master Key to the Fire Protection Division.
12. Prior to quitting time, a check of the work site should be made on a daily basis to ensure compliance with the above instructions.

NOTE: Fire Prevention is available for advice and assistance.

FIRE / EMERGENCIES
FIRE PROTECTION DIVISION
FIRE PREVENTION SECTION

911
451-3004
451-3320/3327

Start Date April 22, 1996
Should conclude in approximately 30 days.

REF: 04-18-96

BUILDING Site 80 MCB BLDG- 1916

CONTRACT # N62470-93-D-3032

CONTRACTOR OHM REMEDIATION SERVICES CORP
[Signature]

Appendix F
QC Analytical Report

Quality Control Analytical Report

The confirmation samples for AOC-100 were sent to CKY, Inc. analytical laboratories, 630 Maple Avenue, Torrance, California 90503 for analysis. NEESA Level C data deliverables were requested from the laboratory for this project. The results were received and sent to Laboratory Data Consultants, Inc., 7750 El Camino Real, Suite 2C, Carlsbad, California 92009 for third party (independent) data validation. The following sections summarize the results of the data validation.

The data validation was performed under NEESA Level C guidelines. The analyses were validated using the following documents, as applicable to each method:

- Navy Installation Restoration Laboratory Quality Assurance Guide. Interim Guidance Document, Naval Facilities Engineering Service Center, February 1996
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994
- EPA SW-846, Third Edition, Test Methods for Evaluating Solid Waste, Update 1, July 1992, Update IIA, August 1993; Update II, September 1994, Update IIB, January 1995

Overall, the data were acceptable and met the project data quality objectives. All holding times were met and there were no major deficiencies found. Minor quality control deficiencies are listed according to each analytical parameter, along with any qualifiers and impact on the usability of the data.

Continuing calibration was performed at required frequencies except that the continuing calibration verification was performed at a 12-hour frequency instead of every 10 samples. Since all continuing calibration verification samples passed the 15 percent QC criteria for this project, this is deemed of no consequence to the validity of the results.

SDG 96E080 (includes Samples CLJ100-CS-001, 005, 008 through 014 and 010 DP, and RB529 and FS520

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 34 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- There was good comparison between sample CLJ100-CS010 and its duplicate. These had detectable levels of 4,4'-DDD (980 and 930), 4,4'-DDE (1200 and 1200) and 4,4'-DDT (97 and 77) ug/kg.
- Sample CLJ100-RB-529 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-529 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

SDG 96E081 (includes Samples CLJ100-CS-020, 020DP, 022, 026, 028 through 030, and 030 DP.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 26 surrogate recoveries were outside of QC limits.
- A method blank was prepared and analyzed for the soil matrix. No chlorinated pesticides were found in this sample.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-020, CLJ100-CS-020DP and CLJ100-CS-030, CLJ100-CS-030DP were identified as duplicates. No chlorinated pesticides were found with the exception of CLJ100-CS-020 and 020DP which contained dieldrin (30 and 86) and 4,4'-DDE (ND and 120) ug/kg.

SDG 96F004 (includes Samples CLJ100-CS-031 through 047 and 040 DP, RF531 and FB531

- Samples were received intact, cooler sealed, cooler temperature 2°C. Sample CLJ100-CS-036 had a crack in the container upon receipt, but sample integrity was deemed acceptable to analyze.
- Zero of 48 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-040, CLJ100-CS-040DP were identified as duplicates. No chlorinated pesticides were identified in these samples except 4,4'-DDE (120, ND) and dieldrin (43, 31) ug/kg.
- Sample CLJ100-RB-531 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-531 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

SDG 96F009 (includes Samples CLJ100-CS-048 through 063 and 050 DP and 060 DP.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 46 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-050, CLJ100-CS-050DP, CLJ100-CS-060 and CLJ100-CS-060DP were identified as duplicates. No chlorinated pesticides were detected except CLJ100-CS-050 its duplicate for dieldrin (62 and 100) ug/kg.

SDG 96F014 (includes Samples CLJ100-CS-064 through 066, 068, 069, 071, 073 through 075 and 077 through 079, RB604 and FB604.

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 38 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both water and soil matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Sample CLJ100-RB-604 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-604 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

SDG 96F019 (includes Samples CLJ100-CS-080 through 095, 080DP and 090DP).

- Samples were received intact, cooler sealed, cooler temperature 2°C.
- Zero of 42 surrogate recoveries were outside of QC limits.
- A method blanks was prepared and analyzed for the soil matrix. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-080, CLJ100-CS-080DP, CLJ100-CS-090 and CLJ100-CS-090DP were identified as duplicates. No chlorinated pesticides were identified in any of these samples.

SDG 96F022 (includes Samples CLJ100-CS-096 through 100 and 100 DP, RB606 and FB606.

- Samples were received intact, cooler sealed, cooler temperature 3°C.
- Zero of 20 surrogate recoveries were outside of QC limits.
- Method blanks were prepared and analyzed for both soil and water matrices. No chlorinated pesticides were found in these samples.
- Matrix spike and matrix spike duplicate samples results were within QC limits for Recoveries and relative percent difference, except CLJ100-CS-096 matrix spike and matrix spike duplicate whose RFP was 62% (limit 50%) for 4,4'-DDD. This is considered of little consequence, since the 4,4'-DDD result on the sample was N.D.
- Lab control samples and lab control sample duplicates samples were also within QC limits for percent Recovery and relative percent difference.
- Samples CLJ100-CS-100, CLJ100-CS-100DP were identified as duplicates. No chlorinated pesticides were found except aldrin (31, ND) ug/kg.
- Sample CLJ100-RB-606 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.
- Sample CLJ100-FB-606 was identified as a field blank. No chlorinated pesticide contaminants were found in this sample.

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: May 29, 1996
LDC Report Date: August 14, 1996
Matrix: Soil/Water
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.

Sample Delivery Group (SDG): 96E080

Sample Identification

CLJ100-CS-001
CLJ100-CS-005
CLJ100-CS-008
CLJ100-CS-009
CLJ100-CS-010
CLJ100-CS-010DP
CLJ100-CS-011
CLJ100-CS-012
CLJ100-CS-013
CLJ100-CS-014
CLJ100-RB-529
CLJ100-FB-529
CLJ100-CS-001MS
CLJ100-CS-001MSD

Introduction

This data review covers 12 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96E080	All TCL compounds	More than ten samples were run in between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-010 and CLJ100-CS-010DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	CLJ100-CS-010	CLJ100-CS-010DP	
4,4'-DDD	980	930	5
4,4'-DDE	1200	1200	0
4,4'-DDT	97	77	23

XV. Field Blanks

Sample CLJ100-RB-529 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-FB-529 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

**Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96E080**

No Sample Data Qualified in this SDG

**Camp Lejeune
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG
96E080**

No Sample Data Qualified in this SDG

A

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                   DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-001           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-01                 MATRIX:         SOIL
% MOISTURE:  9.5                     DILUTION FACTOR: 1
=====

```

2
8-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	280	110
Dieldrin	50	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-005           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-05                 MATRIX:         SOIL
% MOISTURE:  10.2                    DILUTION FACTOR: 1
=====
  
```

2
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.9
alpha-BHC	ND	11.1
beta-BHC	ND	22.3
delta-BHC	ND	27.8
gamma-BHC (Lindane)	ND	18.9
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.3
Endosulfan I	ND	18.9
Endosulfan II	ND	223
Endosulfan Sulfate	ND	22.3
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	223
Heptachlor Epoxide	ND	557
Methoxychlor	ND	1110
Toxaphene	ND	2230
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	99	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                   DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-008           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-08                 MATRIX:          SOIL
% MOISTURE:  11.5                     DILUTION FACTOR: 1
=====
  
```

2
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.2
alpha-BHC	ND	11.3
beta-BHC	ND	22.6
delta-BHC	ND	28.2
gamma-BHC (Lindane)	ND	19.2
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	ND	113
4,4'-DDE	ND	113
4,4'-DDT	ND	113
Dieldrin	ND	22.6
Endosulfan I	ND	19.2
Endosulfan II	ND	226
Endosulfan Sulfate	ND	22.6
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	226
Heptachlor Epoxide	ND	565
Methoxychlor	ND	1130
Toxaphene	ND	2260
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-009           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-09                 MATRIX:         SOIL
% MOISTURE:  14.5                     DILUTION FACTOR: 1
=====
  
```

8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.9
alpha-BHC	ND	11.7
beta-BHC	ND	23.4
delta-BHC	ND	29.2
gamma-BHC (Lindane)	ND	19.9
alpha-Chlordane	100	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	650*	117
4,4'-DDT	280	117
Dieldrin	110	23.4
Endosulfan I	ND	19.9
Endosulfan II	ND	234
Endosulfan Sulfate	ND	23.4
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	234
Heptachlor Epoxide	ND	585
Methoxychlor	ND	1170
Toxaphene	ND	2340

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	94	20-150

RL: Reporting Limit
 * : Was diluted at DF 5 and reanalyzed on 06/06/96 due to high concentration level.

EPA METHOD 8080
PESTICIDES

5

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-010           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-10                 MATRIX:         SOIL
% MOISTURE:  17.5                    DILUTION FACTOR: 1
=====
  
```

2
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.6
alpha-BHC	ND	12.1
beta-BHC	ND	24.2
delta-BHC	ND	30.3
gamma-BHC (Lindane)	ND	20.6
alpha-Chlordane	ND	121
gamma-Chlordane	ND	121
4,4'-DDD	ND	121
4,4'-DDE	980*	121
4,4'-DDT	1200*	121
Dieldrin	97	24.2
Endosulfan I	ND	20.6
Endosulfan II	ND	242
Endosulfan Sulfate	ND	24.2
Endrin	ND	121
Endrin aldehyde	ND	12.1
Heptachlor	ND	242
Heptachlor Epoxide	ND	606
Methoxychlor	ND	1210
Toxaphene	ND	2420
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	92	20-150

```

=====
RL: Reporting Limit
* : Was diluted at DF 10 and reanalyzed on 06/06/96 due to high
    concentration level.
  
```

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-010DP         DATE ANALYZED:  06/05/96
CONTROL NO.: E080-11                 MATRIX:         SOIL
% MOISTURE:  19.6                    DILUTION FACTOR: 1
=====
  
```

WJ
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	21.1
alpha-BHC	ND	12.4
beta-BHC	ND	24.9
delta-BHC	ND	31.1
gamma-BHC (Lindane)	ND	21.1
alpha-Chlordane	ND	124
gamma-Chlordane	ND	124
4,4'-DDD	ND	124
4,4'-DDE	930*	124
4,4'-DDT	1200*	124
Dieldrin	77	24.9
Endosulfan I	ND	21.1
Endosulfan II	ND	249
Endosulfan Sulfate	ND	24.9
Endrin	ND	124
Endrin aldehyde	ND	12.4
Heptachlor	ND	249
Heptachlor Epoxide	ND	622
Methoxychlor	ND	1240
Toxaphene	ND	2490

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	95	20-150

```

=====
RL: Reporting Limit
* : Was diluted at DF 5 and reanalyzed due to high concentration
    level.
  
```

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                   DATE EXTRACTED: 06/03/96
SAMPLE ID:  CLJ100-CS-011            DATE ANALYZED:  06/05/96
CONTROL NO.: E080-12                 MATRIX:         SOIL
% MOISTURE: 11.1                     DILUTION FACTOR: 1
=====
  
```

21
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.1
alpha-BHC	ND	11.2
beta-BHC	ND	22.5
delta-BHC	ND	28.1
gamma-BHC (Lindane)	ND	19.1
alpha-Chlordane	ND	112
gamma-Chlordane	ND	112
4,4'-DDD	ND	112
4,4'-DDE	ND	112
4,4'-DDT	ND	112
Dieldrin	ND	22.5
Endosulfan I	ND	19.1
Endosulfan II	ND	225
Endosulfan Sulfate	ND	22.5
Endrin	ND	112
Endrin aldehyde	ND	11.2
Heptachlor	ND	225
Heptachlor Epoxide	ND	562
Methoxychlor	ND	1120
Toxaphene	ND	2250
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-012          DATE ANALYZED:  06/05/96
CONTROL NO.: E080-13                MATRIX:         SOIL
% MOISTURE:  NA                      DILUTION FACTOR: 1
=====
  
```

2)
8-28-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	220	100
4,4'-DDT	150	100
Dieldrin	64	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	101	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-013          DATE ANALYZED:  06/05/96
CONTROL NO.: E080-14                MATRIX:         SOIL
% MOISTURE:  14.9                   DILUTION FACTOR: 1
=====
  
```

21
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20
alpha-BHC	ND	11.8
beta-BHC	ND	23.5
delta-BHC	ND	29.4
gamma-BHC (Lindane)	ND	20
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	330	118
4,4'-DDT	180	118
Dieldrin	ND	23.5
Endosulfan I	ND	20
Endosulfan II	ND	235
Endosulfan Sulfate	ND	23.5
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	235
Heptachlor Epoxide	ND	588
Methoxychlor	ND	1180
Toxaphene	ND	2350
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	101	20-150
Decachlorobiphenyl	93	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E080
SAMPLE ID:   CLJ100-CS-014
CONTROL NO.: E080-15
% MOISTURE:  9.5

DATE COLLECTED: 05/29/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 06/03/96
DATE ANALYZED:  06/05/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
  
```

8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	150	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	79	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-RB-529           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-16                 MATRIX:         WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====
  
```

aj
8-20-96

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	107	30-150
Decachlorobiphenyl	48	24-154

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-FB-529            DATE ANALYZED:  06/05/96
CONTROL NO.: E080-17                  MATRIX:          WATER
% MOISTURE:  NA                        DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1

2
8-20-96

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	103	30-150
Decachlorobiphenyl	46	24-154

=====
RL: Reporting Limit

LDC #: 1920A3 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 96E080 EPA Level III X NFESC Level C
 Laboratory: CKY, Inc.

Date: 8-12-96
 Page: 1 of 1
 Reviewer: 2
 2nd Reviewer: 9

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>5-29-96</u>
II.	GC/ECD Instrument Performance Check	A-	
III.	Initial calibration	A	<u>%. RSD</u>
IV.	Continuing calibration	SW	<u>%. RSD 0</u>
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	<u>No AQ ms/msd, QC samples</u>
VIII.	Laboratory control samples	A	<u>LCS for soil, LCS/LCSD for AQ</u>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	<u>D = 5, 6</u>
XV.	Field blanks	NO	<u>R = 11 FB = 12</u>

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinse TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	CLJ100-CS-001 ✓	soil	11R	CLJ100-RB-529 ✓	AQ	21
2	CLJ100-CS-005 ✓		12R	CLJ100-FB-529 ✓	↓	22
3	CLJ100-CS-008 ✓		13	CLJ100-CS-001MS	soil	23
4	CLJ100-CS-009 ✓		14	CLJ100-CS-001MSD	↓	24
5	CLJ100-CS-010 ✓		15	mBLK1S	↓	25
6	CLJ100-CS-010DP ✓		16	mBLK1W	AQ	26
7	CLJ100-CS-011 ✓		17			27
8	CLJ100-CS-012 ✓		18			28
9	CLJ100-CS-013 ✓		19			29
10	CLJ100-CS-014 ✓		20			30

RTX-35 - primary column

LDC #: 1920
 SDG #: 962080

VALIDATION FINDINGS WORKSHEET
 Continuing Calibration

P. 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

- Y N N/A What type or calibration verification calculation was performed? ___ %D or ___ RPD
- Y N N/A Were Evaluation mix standards run before initial calibration and before samples?
- Y N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard ($\leq 20.0\%$ for individual breakdowns)?
- Y N N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve?
- Y N N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?
- Y N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of $\leq 15.0\%$?

Level IV/D Only

- Y N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?
- Y N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)
- Y N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more than 10 samples were only analyzed between ccv's.				()	all samples, Mistmas + blanks	None/A
						()		
						()		
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						()		

- A. Alpha-BHC E. Heptachlor I. Dieldrin M. 4,4'-DDD Q. Endrin ketone U. Toxaphene Y. Aroclor-1242 CC. DB 608 GG. _____
- B. Beta-BHC F. Aldrin J. 4,4'-DDE N. Endosulfan sulfate R. Endrin aldehyde V. Aroclor-1018 Z. Aroclor-1248 DD. DB 1701 HH. _____
- C. Delta-BHC G. Heptachlor epoxide K. Endrin O. 4,4'-DDT S. Alpha-chlordane W. Aroclor-1221 AA. Aroclor-1254 EE. _____ II. _____
- D. Gamma-BHC H. Endosulfan I L. Endosulfan II P. Methoxychlor T. Gamma-chlordane X. Aroclor-1232 BB. Aroclor-1260 FF. _____ JJ. _____

LDC #: 1920A3
 SDG #: 96E080

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd reviewer: [Signature]

HOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

N N/A
 N N/A

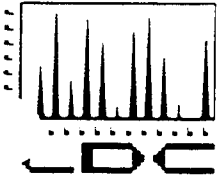
Were field duplicate pairs identified in this SDG?
 Were target compounds detected in this field duplicate pairs?

Compound	Concentration (mg/kg)		RPD
	5	6	
4,4'-DDE ^D	980	930	5
4,4'-DDE ^E	1200	1200	0
4,4'-DDT	97	77	23

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD



LABORATORY DATA CONSULTANTS, INC.

7750 El Camino Real, Suite 2C, Carlsbad, CA 92009 Phone: 619-634-0437 Fax: 619-634-0439

OHM Remediation Services Corp.
5335 Triangle Parkway, Suite 450
Norcross, GA 30092
ATTN: Ms. Missy Art

August 21, 1996

SUBJECT: Camp Lejeune, Data Validation

Dear Ms. Art,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on August 7, 1996.

LDC Project # 1920:

<u>SDG #</u>	<u>Fraction</u>
96E080, 96E081, 96F004, 96F009, 96F014, 96F019, 96F022	Chlorinated Pesticides

The data validation was performed under NFESC Level C guidelines. The analyses were validated using the following documents, as applicable to each method:

- Navy Installation Restoration Laboratory Quality Assurance Guide, Interim Guidance Document, Naval Facilities Engineering Service Center, February 1996
- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995

Please feel free to contact us if you have any questions.

Sincerely,

Richard M. Amano
President/Principal Chemist

LDC #1920 (OHM Remediation Services/Camp Lejeune)

LDC	SDG#	DATE REC'D	DATE DUE	Pesticides																											
				W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
Matrix:	Water																														
A	96E080	8-7-96	8-28-96	2	12																										
B	96E081	8-7-96	8-28-96	0	10																										
C	96F004	8-7-96	8-28-96	2	19																										
D	96F009	8-7-96	8-28-96	0	20																										
E	96F014	8-7-96	8-28-96	2	14																										
F	96F019	8-7-96	8-28-96	0	18																										
G	96F022	8-7-96	8-28-96	2	7																										
Total				8	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

Shaded cells indicate Level D validation (all other cells are Level C validation)

**Camp Lejeune
Data Validation Reports
LDC# 1920**

Chlorinated Pesticides

LDC

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: May 30, 1996
LDC Report Date: August 15, 1996
Matrix: Soil
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.

Sample Delivery Group (SDG): 96E081

Sample Identification

CLJ100-CS-020
CLJ100-CS-020DP
CLJ100-CS-022
CLJ100-CS-026
CLJ100-CS-028
CLJ100-CS-029
CLJ100-CS-030
CLJ100-CS-030DP
CLJ100-CS-022MS
CLJ100-CS-022MSD

Introduction

This data review covers 10 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-020 and CLJ100-CS-020DP and samples CLJ100-CS-030 and CLJ100-CS-030DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	CLJ100-CS-020	CLJ100-CS-020DP	
Dieldrin	30	86	97
4,4'-DDE	ND	120	Not calculable

XV. Field Blanks

No field blanks were identified in this SDG.

**Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96E081**

No Sample Data Qualified in this SDG

**Camp Lejeune
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG
96E081**

No Sample Data Qualified in this SDG

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E081
SAMPLE ID:   CLJ100-CS-020
CONTROL NO.: E081-06
% MOISTURE:  13.2
DATE COLLECTED: 05/30/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 05/31/96
DATE ANALYZED:  05/31/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23
delta-BHC	ND	28.8
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	ND	115
4,4'-DDT	ND	115
Dieldrin	30	23
Endosulfan I	ND	19.6
Endosulfan II	ND	230
Endosulfan Sulfate	ND	23
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	230
Heptachlor Epoxide	ND	576
Methoxychlor	ND	1150
Toxaphene	ND	2300
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	113	20-150
Decachlorobiphenyl	78	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-020DP         DATE ANALYZED:  05/31/96
CONTROL NO.: E081-07                 MATRIX:         SOIL
% MOISTURE:  13.6                    DILUTION FACTOR: 1
=====

```

WJ
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	120	116
4,4'-DDT	ND	116
Dieldrin	86	23.1
Endosulfan I	ND	19.7
Endosulfan II	ND	231
Endosulfan Sulfate	ND	23.1
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	231
Heptachlor Epoxide	ND	579
Methoxychlor	ND	1160
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	72	20-150

RL: Reporting Limit



EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-022           DATE ANALYZED:  06/01/96
CONTROL NO.: E081-09                 MATRIX:         SOIL
% MOISTURE:  11.7                    DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.3
beta-BHC	ND	22.7
delta-BHC	ND	28.3
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	ND	113
4,4'-DDE	ND	113
4,4'-DDT	ND	113
Dieldrin	110	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	227
Heptachlor Epoxide	ND	566
Methoxychlor	ND	1130
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	106	20-150
Decachlorobiphenyl	74	20-150

3.20.96

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E081
SAMPLE ID:   CLJ100-CS-026
CONTROL NO.: E081-13
% MOISTURE:  8.9
DATE COLLECTED: 05/30/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 05/31/96
DATE ANALYZED:  06/01/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.7
alpha-BHC	ND	11
beta-BHC	ND	22
delta-BHC	ND	27.4
gamma-BHC (Lindane)	ND	18.7
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	330*	110
4,4'-DDE	350*	110
4,4'-DDT	610*	110
Dieldrin	110	22
Endosulfan I	ND	18.7
Endosulfan II	ND	220
Endosulfan Sulfate	ND	22
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	220
Heptachlor Epoxide	ND	549
Methoxychlor	ND	1100
Toxaphene	ND	2200
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	110	20-150
Decachlorobiphenyl	75	20-150

21
8-20-96

```

=====
RL:  Reporting Limit
* :  Was diluted at DF 5 and reanalyzed on 06/02/96 due to high
     concentration level.
  
```

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-028          DATE ANALYZED:  06/01/96
CONTROL NO.: E081-15                MATRIX:         SOIL
% MOISTURE:  7.5                    DILUTION FACTOR: 1
=====
  
```

2)
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	230	108
4,4'-DDT	300	108
Dieldrin	250	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	113	20-150
Decachlorobiphenyl	73	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-029           DATE ANALYZED:  06/01/96
CONTROL NO.: E081-16                 MATRIX:         SOIL
% MOISTURE:  12.2                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	1300*	114
4,4'-DDE	1600*	114
4,4'-DDT	ND	114
Dieldrin	310	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	569
Methoxychlor	ND	1140
Toxaphene	ND	2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	68	20-150

8-20-96

RL: Reporting Limit

* : Was diluted at DF 10 and reanalyzed on 06/02/96 due to high concentration level.

7

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                   DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-030           DATE ANALYZED:  06/01/96
CONTROL NO.: E081-17                 MATRIX:         SOIL
% MOISTURE:  7.6                     DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	68	20-150

2)
8-20-96

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E081
SAMPLE ID:   CLJ100-CS-C30DP
CONTROL NO.: E081-18
% MOISTURE:  6.9
DATE COLLECTED: 05/30/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 05/31/96
DATE ANALYZED:  06/01/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	537
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	70	20-150

2
8-30-96

RL: Reporting Limit

LDC #: 1920B3 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 96E081 EPA Level III X NFESC Level C
 Laboratory: CKY, Inc.

Date: 8-12-96
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>5-30-96</u>
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	<u>1. RSD</u>
IV.	Continuing calibration	A	<u>1.0</u>
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	<u>LCS</u>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	<u>D₁ = 1, 2 * D₂ = 7, 8 * = ND</u>
XV.	Field blanks	N	<u>SL = 7, 8 - 2</u>

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

10	CLJ100-CS-020 ✓	soil	11	CLJ100-CS-22MSD soil	21
2 ↓	CLJ100-CS-020DP ✓		12		22
3	CLJ100-CS-022 ✓		13		23
4	CLJ100-CS-026 ✓		14		24
5	CLJ100-CS-028 ✓		15		25
6	CLJ100-CS-029 ✓		16		26
7 ↓	CLJ100-CS-030 ✓		17		27
8 ↓	CLJ100-CS-030DP		18		28
9	MOLKIS		19		29
10	CLJ100-CS-22MS soil		20		30

LDC #: 1920B3
 SDG #: Q6E081

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: [Signature]
 2nd reviewer: [Signature]

MOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

- N/A Were field duplicate pairs identified in this SDG?
- N/A Were target compounds detected in this field duplicate pairs?

Compound	Concentration (mg/kg)		RPD
	1	2	
Dieldrin	30	86	97
4,4'-DDE	ND	120	NC

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: May 31, 1996
LDC Report Date: August 14, 1996
Matrix: Soil/Water
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.

Sample Delivery Group (SDG): 96F004

Sample Identification

CLJ100-CS-031
CLJ100-CS-032
CLJ100-CS-033
CLJ100-CS-034
CLJ100-CS-035
CLJ100-CS-036
CLJ100-CS-037
CLJ100-CS-038
CLJ100-CS-040
CLJ100-CS-040DP
CLJ100-CS-041
CLJ100-CS-042
CLJ100-CS-043
CLJ100-CS-044
CLJ100-CS-045
CLJ100-CS-046
CLJ100-CS-047
CLJ100-RB-531
CLJ100-FB-531
CLJ100-CS-041MS
CLJ100-CS-041MSD

Introduction

This data review covers 19 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-040 and CLJ100-CS-040DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	CLJ100-CS-040	CLJ100-CS-040DP	
4,4'-DDD	170	ND	Not calculable
4,4'-DDE	120	ND	Not calculable
Dieldrin	43	31	32

XV. Field Blanks

Sample CLJ100-RB-531 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-FB-531 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

**Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96F004**

No Sample Data Qualified in this SDG

**Camp Lejeune
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG
96F004**

No Sample Data Qualified in this SDG

EPA METHOD 8080
PESTICIDES

2

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-031           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-01                 MATRIX:         SOIL
% MOISTURE:  8.8                     DILUTION FACTOR: 1
=====
  
```

2
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.6
alpha-BHC	ND	11
beta-BHC	ND	21.9
delta-BHC	ND	27.4
gamma-BHC (Lindane)	ND	18.6
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	110
Endosulfan I	ND	21.9
Endosulfan II	ND	18.6
Endosulfan Sulfate	ND	219
Endrin	ND	21.9
Endrin aldehyde	ND	110
Heptachlor	ND	11
Heptachlor Epoxide	ND	219
Methoxychlor	ND	548
Toxaphene	ND	1100
		2190
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	94	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                                DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE                 DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                             DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-032                       DATE ANALYZED:  06/04/96
CONTROL NO.: F004-02                             MATRIX:         SOIL
% MOISTURE:  7.0                                DILUTION FACTOR: 1
=====
  
```

2)
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.8
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	215
Heptachlor Epoxide	ND	538
Methoxychlor	ND	1080
Toxaphene	ND	2150

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	101	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-033          DATE ANALYZED:  06/04/96
CONTROL NO.: F004-03                MATRIX:         SOIL
% MOISTURE:  9.3                    DILUTION FACTOR: 1
=====
  
```

2
8-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.7
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.7
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	22.1
Endosulfan I	ND	18.7
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	551
Methoxychlor	ND	1100
Toxaphene	ND	2210

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	105	20-150
Decachlorobiphenyl	101	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-034           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-04                 MATRIX:         SOIL
% MOISTURE:  6.6                     DILUTION FACTOR: 1
=====
  
```

2)
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	535
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-035          DATE ANALYZED:  06/04/96
CONTROL NO.: F004-05                MATRIX:         SOIL
% MOISTURE:  17.4                    DILUTION FACTOR: 1
=====
  
```

*RL
8-20-96*

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.6
alpha-BHC	ND	12.1
beta-BHC	ND	24.2
delta-BHC	ND	30.3
gamma-BHC (Lindane)	ND	20.6
alpha-Chlordane	ND	121
gamma-Chlordane	ND	121
4,4'-DDD	ND	121
4,4'-DDE	ND	121
4,4'-DDT	ND	121
Dieldrin	ND	24.2
Endosulfan I	ND	20.6
Endosulfan II	ND	242
Endosulfan Sulfate	ND	24.2
Endrin	ND	121
Endrin aldehyde	ND	12.1
Heptachlor	ND	242
Heptachlor Epoxide	ND	605
Methoxychlor	ND	1210
Toxaphene	ND	2420
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F004
SAMPLE ID:   CLJ100-CS-036
CONTROL NO.: F004-06
% MOISTURE:  11.4
DATE COLLECTED: 05/31/96
DATE RECEIVED:  06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/04/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

2)
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.2
alpha-BHC	ND	11.3
beta-BHC	ND	22.6
delta-BHC	ND	28.2
gamma-BHC (Lindane)	ND	19.2
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	120	113
4,4'-DDE	950*	113
4,4'-DDT	ND	113
Dieldrin	110	22.6
Endosulfan I	ND	19.2
Endosulfan II	ND	226
Endosulfan Sulfate	ND	22.6
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	226
Heptachlor Epoxide	ND	564
Methoxychlor	ND	1130
Toxaphene	ND	2260
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	98	20-150

```

=====
RL: Reporting Limit
* : Was diluted at DF 10 and reanalyzed on 06/05/96 due to high
concentration level.
  
```

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:  CLJ100-CS-037            DATE ANALYZED:  06/04/96
CONTROL NO.: F004-07                 MATRIX:         SOIL
% MOISTURE: 12.3                     DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	180	114
4,4'-DDT	ND	114
Dieldrin	30	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	570
Methoxychlor	ND	1140
Toxaphene	ND	2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	93	20-150
Decachlorobiphenyl	91	20-150

2)
8-20-96

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-038           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-08                 MATRIX:         SOIL
% MOISTURE:  6.3                     DILUTION FACTOR: 1
=====
  
```

12
8-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.1
alpha-BHC	ND	10.7
beta-BHC	ND	21.3
delta-BHC	ND	26.7
gamma-BHC (Lindane)	ND	18.1
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	180	107
4,4'-DDT	ND	107
Dieldrin	60	21.3
Endosulfan I	ND	18.1
Endosulfan II	ND	213
Endosulfan Sulfate	ND	21.3
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	213
Heptachlor Epoxide	ND	534
Methoxychlor	ND	1070
Toxaphene	ND	2130
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

09

EPA METHOD 8060
PESTICIDES

9

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-040          DATE ANALYZED:  06/04/96
CONTROL NO.: F004-10                MATRIX:         SOIL
% MOISTURE:  15.8                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.2
alpha-BHC	ND	11.9
beta-BHC	ND	23.8
delta-BHC	ND	29.7
gamma-BHC (Lindane)	ND	20.2
alpha-Chlordane	ND	119
gamma-Chlordane	ND	119
4,4'-DDD	170	119
4,4'-DDE	120	119
4,4'-DDT	ND	119
Dieldrin	43	23.8
Endosulfan I	ND	20.2
Endosulfan II	ND	238
Endosulfan Sulfate	ND	23.8
Endrin	ND	119
Endrin aldehyde	ND	11.9
Heptachlor	ND	238
Heptachlor Epoxide	ND	594
Methoxychlor	ND	1190
Toxaphene	ND	2380
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	96	20-150

21
8-20-96

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

10

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-040DP         DATE ANALYZED:  06/04/96
CONTROL NO.: F004-11                 MATRIX:         SOIL
% MOISTURE:  15.5                    DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.1
alpha-BHC	ND	11.8
beta-BHC	ND	23.7
delta-BHC	ND	29.6
gamma-BHC (Lindane)	ND	20.1
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	ND	118
4,4'-DDT	ND	118
Dieldrin	31	23.7
Endosulfan I	ND	20.1
Endosulfan II	ND	237
Endosulfan Sulfate	ND	23.7
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	237
Heptachlor Epoxide	ND	592
Methoxychlor	ND	1180
Toxaphene	ND	2370
SURROGATE PARAMETER		

Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	90	20-150

2)
8-20-96

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-041           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-12                 MATRIX:         SOIL
% MOISTURE:  9.7                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11.1
beta-BHC	ND	22.1
delta-BHC	ND	27.7
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	221
Heptachlor Epoxide	ND	554
Methoxychlor	ND	1110
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	96	20-150

21
3-20-96

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F004
SAMPLE ID:   CLJ100-CS-042
CONTROL NO.: F004-13
% MOISTURE:  8.3
DATE COLLECTED: 05/31/96
DATE RECEIVED:  06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/04/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.5
alpha-BHC	ND	10.9
beta-BHC	ND	21.8
delta-BHC	ND	27.3
gamma-BHC (Lindane)	ND	18.5
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	109
Endosulfan I	ND	21.8
Endosulfan II	ND	18.5
Endosulfan Sulfate	ND	218
Endrin	ND	21.8
Endrin aldehyde	ND	109
Heptachlor	ND	10.9
Heptachlor Epoxide	ND	218
Methoxychlor	ND	545
Toxaphene	ND	1090
		2180
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

WJ
3-20-96

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                    DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-043            DATE ANALYZED:  06/04/96
CONTROL NO.: F004-14                  MATRIX:         SOIL
% MOISTURE:  12.2                      DILUTION FACTOR: 1
=====

```

RJ
8-28-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	569
Methoxychlor	ND	1140
Toxaphene	ND	2280

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	98	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-044           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-15                 MATRIX:         SOIL
% MOISTURE:  6.4                     DILUTION FACTOR: 1
=====

```

KL
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.7
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	38	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	534
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-045           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-16                 MATRIX:         SOIL
% MOISTURE:  7.6                     DILUTION FACTOR: 1
=====

```

D
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	100	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:  CLJ100-CS-046            DATE ANALYZED:  06/05/96
CONTROL NO.: F004-17                 MATRIX:         SOIL
% MOISTURE: 6.9                       DILUTION FACTOR: 1
=====
  
```

WJ
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	107
Endosulfan I	ND	21.5
Endosulfan II	ND	18.3
Endosulfan Sulfate	ND	215
Endrin	ND	21.5
Endrin aldehyde	ND	107
Heptachlor	ND	10.7
Heptachlor Epoxide	ND	215
Methoxychlor	ND	537
Toxaphene	ND	1070
		2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	102	20-150
Decachlorobiphenyl	102	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-047          DATE ANALYZED:  06/05/96
CONTROL NO.: F004-18                MATRIX:         SOIL
% MOISTURE:  10.3                   DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19
alpha-BHC	ND	11.1
beta-BHC	ND	22.3
delta-BHC	ND	27.9
gamma-BHC (Lindane)	ND	19
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.3
Endosulfan I	ND	19
Endosulfan II	ND	223
Endosulfan Sulfate	ND	22.3
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	223
Heptachlor Epoxide	ND	557
Methoxychlor	ND	1110
Toxaphene	ND	2230
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

2
8-20-96

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-RB-531           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-19                 MATRIX:          WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====
  
```

12
8-20-96

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	104	30-150
Decachlorobiphenyl	50	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-FB-531           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-20                 MATRIX:         WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	30-150
Decachlorobiphenyl	61	24-154

8-20-96

RL: Reporting Limit

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 5-31-96
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	1. RSP
IV.	Continuing calibration	SWA	1. RSD 0
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	No AQ MS/MSD, DC samples
VIII.	Laboratory control samples	A	CCS/LCSD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
Xi.	Target compound identification	N	
Xii.	Compound quantitation and reported CRQLs	N	
Xiii.	Overall assessment of data	A	
Xiv.	Field duplicates	SW	D = 9, 10
Xv.	Field blanks	No	R = 18 FB = 19

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinstate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	CLJ100-CS-031 ✓	soil	11	CLJ100-CS-041 ✓	soil	21	CLJ100-CS-041MSD	soil
2	CLJ100-CS-032 ✓		12	CLJ100-CS-042 ✓		22	MBLKIS	↓
3	CLJ100-CS-033 ✓		13	CLJ100-CS-043 ✓		23	MBLK1W	AQ
4	CLJ100-CS-034 ✓		14	CLJ100-CS-044 ✓		24		
5	CLJ100-CS-035 ✓		15	CLJ100-CS-045 ✓		25		
6	CLJ100-CS-036 ✓		16	CLJ100-CS-046 ✓		26		
7	CLJ100-CS-037 ✓		17	CLJ100-CS-047 ✓		27		
8	CLJ100-CS-038 ✓		18R	CLJ100-RB-531	AQ	28		
9	CLJ100-CS-040 ✓		19FB	CLJ100-FB-531	↓	29		
10	CLJ100-CS-040DP ✓		20	CLJ100-CS-041MS	soil	30		

primary - RT4-35
 confirm - RT4-5

Several CCV's were cut on confirmation column

LDC #: 1920C3
 SDG #: 9LF004

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: 2J
 2nd reviewer: pl

MOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

N N/A
 N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in this field duplicate pairs?

Compound	Concentration (mg/kg)		RPD
	9	10	
4,4'-DDE	170	ND	NC
4,4'-DDE	120	ND	NC
Dieldrin	43	31	32

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: June 1, 1996
LDC Report Date: August 14, 1996
Matrix: Soil
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.
Sample Delivery Group (SDG): 96F009

Sample Identification

CLJ100-CS-048
CLJ100-CS-049
CLJ100-CS-050
CLJ100-CS-050DP
CLJ100-CS-051
CLJ100-CS-052
CLJ100-CS-053
CLJ100-CS-054
CLJ100-CS-055
CLJ100-CS-056
CLJ100-CS-057
CLJ100-CS-058
CLJ100-CS-059
CLJ100-CS-060
CLJ100-CS-060DP
CLJ100-CS-061
CLJ100-CS-062
CLJ100-CS-063
CLJ100-CS-048MS
CLJ100-CS-048MSD

Introduction

This data review covers 20 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96F009	All TCL compounds	More than ten samples were run in between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-050 and CLJ100-CS-050DP and samples CLJ100-CS-060 and CLJ100-CS-060DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	CLJ100-CS-050	CLJ100-CS-050DP	
Dieldrin	62	100	47

XV. Field Blanks

No field blanks were identified in this SDG.

**Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96F009**

No Sample Data Qualified in this SDG

**Camp Lejeune
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG
96F009**

No Sample Data Qualified in this SDG

EPA METHOD 8080
PESTICIDES

D

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/95
SAMPLE ID:   CLJ100-CS-048           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-01                 MATRIX:         SOIL
% MOISTURE:  14.3                    DILUTION FACTOR: 1
=====
  
```

8-26-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.7
beta-BHC	ND	23.3
delta-BHC	ND	29.2
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	233
Heptachlor Epoxide	ND	583
Methoxychlor	ND	1170
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-049           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-02                 MATRIX:         SOIL
% MOISTURE:  13.3                    DILUTION FACTOR: 1
=====
  
```

21
8-26-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23.1
delta-BHC	ND	28.8
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	ND	115
4,4'-DDT	ND	115
Dieldrin	ND	115
Endosulfan I	ND	23.1
Endosulfan II	ND	19.6
Endosulfan Sulfate	ND	231
Endrin	ND	23.1
Endrin aldehyde	ND	115
Heptachlor	ND	11.5
Heptachlor Epoxide	ND	231
Methoxychlor	ND	577
Toxaphene	ND	1150
		2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

3

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-050           DATE ANALYZED:  06/05/96
CONTROL NO.: F009-03                 MATRIX:         SOIL
% MOISTURE:  6.8                      DILUTION FACTOR: 1
=====
  
```

2)
3-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	62	21.5
Endosulfan I	ND	18.2
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	94	20-150
Decachlorobiphenyl	93	20-150

=====
RL: Reporting Limit

04

EPA METHOD 8080
PESTICIDES

4

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F009
SAMPLE ID:   CLJ100-CS050DP
CONTROL NO.: F009-04
% MOISTURE:  17.9
DATE COLLECTED: 06/01/96
DATE RECEIVED:  06/04/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/06/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

2)
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.7
alpha-BHC	ND	12.2
beta-BHC	ND	24.4
delta-BHC	ND	30.5
gamma-BHC (Lindane)	ND	20.7
alpha-Chlordane	ND	122
gamma-Chlordane	ND	122
4,4'-DDD	ND	122
4,4'-DDE	ND	122
4,4'-DDT	ND	122
Dieldrin	ND	122
Endosulfan I	100	24.4
Endosulfan II	ND	20.7
Endosulfan Sulfate	ND	244
Endrin	ND	24.4
Endrin aldehyde	ND	122
Heptachlor	ND	12.2
Heptachlor Epoxide	ND	244
Methoxychlor	ND	609
Toxaphene	ND	1220
		2440
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	76	20-150
Decachlorobiphenyl	76	20-150

RL: Reporting Limit

05

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-051           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-05                 MATRIX:         SOIL
% MOISTURE:  14.2                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.7
beta-BHC	ND	23.3
delta-BHC	ND	29.1
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	233
Heptachlor Epoxide	ND	583
Methoxychlor	ND	1170
Toxaphene	ND	2330

SURROGATE PARAMETER	% RECOVERY	QC LIMIT

Tetrachloro-m-xylene	94	20-150
Decachlorobiphenyl	95	20-150

2
8-20-96

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-052           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-06                 MATRIX:         SOIL
% MOISTURE:  6.7                     DILUTION FACTOR: 1
=====

```

2
8-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

07

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-053          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-07                MATRIX:         SOIL
% MOISTURE:  5.1                     DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.9
alpha-BHC	ND	10.5
beta-BHC	ND	21.1
delta-BHC	ND	26.3
gamma-BHC (Lindane)	ND	17.9
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21.1
Endosulfan I	ND	17.9
Endosulfan II	ND	211
Endosulfan Sulfate	ND	21.1
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	211
Heptachlor Epoxide	ND	527
Methoxychlor	ND	1050
Toxaphene	ND	2110
SURROGATE PARAMETER		

Tetrachloro-m-xylene	% RECOVERY	QC LIMIT
Decachlorobiphenyl	96	20-150
	99	20-150

2)
8-20-96

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F009
SAMPLE ID:   CLJ100-CS-054
CONTROL NO.: F009-08
% MOISTURE:  7.7
DATE COLLECTED: 06/01/96
DATE RECEIVED:  06/04/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/06/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

2
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.7
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	108
Endosulfan I	ND	21.7
Endosulfan II	ND	18.4
Endosulfan Sulfate	ND	217
Endrin	ND	21.7
Endrin aldehyde	ND	108
Heptachlor	ND	10.8
Heptachlor Epoxide	ND	217
Methoxychlor	ND	542
Toxaphene	ND	1080
		2170
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-055            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-09                  MATRIX:         SOIL
% MOISTURE:  7.4                       DILUTION FACTOR: 1
=====
  
```

2)
3.20.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	540
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-056           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-10                 MATRIX:         SOIL
% MOISTURE:  13.2                    DILUTION FACTOR: 1
=====
  
```

3.20

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23
delta-BHC	ND	28.8
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	ND	115
4,4'-DDT	ND	115
Dieldrin	ND	23
Endosulfan I	ND	19.6
Endosulfan II	ND	230
Endosulfan Sulfate	ND	23
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	230
Heptachlor Epoxide	ND	576
Methoxychlor	ND	1150
Toxaphene	ND	2300
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	102	20-150
Decachlorobiphenyl	101	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE                DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                            DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-057                     DATE ANALYZED:  06/06/96
CONTROL NO.: F009-11                            MATRIX:         SOIL
% MOISTURE:  8.1                               DILUTION FACTOR: 1
=====
  
```

8-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.5
alpha-BHC	ND	10.9
beta-BHC	ND	21.8
delta-BHC	ND	27.2
gamma-BHC (Lindane)	ND	18.5
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	21.8
Endosulfan I	ND	18.5
Endosulfan II	ND	21.8
Endosulfan Sulfate	ND	21.8
Endrin	ND	109
Endrin aldehyde	ND	10.9
Heptachlor	ND	218
Heptachlor Epoxide	ND	544
Methoxychlor	ND	1090
Toxaphene	ND	2180
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE                DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                            DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-058                    DATE ANALYZED:  06/06/96
CONTROL NO.: F009-12                          MATRIX:         SOIL
% MOISTURE:  4.6                              DILUTION FACTOR: 1
=====
  
```

8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.8
alpha-BHC	ND	10.5
beta-BHC	ND	21
delta-BHC	ND	26.2
gamma-BHC (Lindane)	ND	17.8
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21
Endosulfan I	ND	17.8
Endosulfan II	ND	210
Endosulfan Sulfate	ND	21
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	210
Heptachlor Epoxide	ND	524
Methoxychlor	ND	1050
Toxaphene	ND	2100
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE                DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                            DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-059                     DATE ANALYZED:  06/06/96
CONTROL NO.: F009-13                            MATRIX:         SOIL
% MOISTURE:  4.6                                DILUTION FACTOR: 1
=====
  
```

U
8.20.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.8
alpha-BHC	ND	10.5
beta-BHC	ND	21
delta-BHC	ND	26.2
gamma-BHC (Lindane)	ND	17.8
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	105
Endosulfan I	ND	21
Endosulfan II	ND	17.8
Endosulfan Sulfate	ND	210
Endrin	ND	21
Endrin aldehyde	ND	105
Heptachlor	ND	10.5
Heptachlor Epoxide	ND	210
Methoxychlor	ND	524
Toxaphene	ND	1050
		2100
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	98	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-060            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-14                 MATRIX:         SOIL
% MOISTURE: 10.4                     DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19
alpha-BHC	ND	11.2
beta-BHC	ND	22.3
delta-BHC	ND	27.9
gamma-BHC (Lindane)	ND	19
alpha-Chlordane	ND	112
gamma-Chlordane	ND	112
4,4'-DDD	ND	112
4,4'-DDE	ND	112
4,4'-DDT	ND	112
Dieldrin	ND	22.3
Endosulfan I	ND	19
Endosulfan II	ND	223
Endosulfan Sulfate	ND	22.3
Endrin	ND	112
Endrin aldehyde	ND	11.2
Heptachlor	ND	223
Heptachlor Epoxide	ND	558
Methoxychlor	ND	1120
Toxaphene	ND	2230
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	95	20-150

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS060DP           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-15                 MATRIX:         SOIL
% MOISTURE: 4.0                       DILUTION FACTOR: 1
=====
  
```

2-2-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.7
alpha-BHC	ND	10.4
beta-BHC	ND	20.8
delta-BHC	ND	26
gamma-BHC (Lindane)	ND	17.7
alpha-Chlordane	ND	104
gamma-Chlordane	ND	104
4,4'-DDD	ND	104
4,4'-DDE	ND	104
4,4'-DDT	ND	104
Dieldrin	ND	20.8
Endosulfan I	ND	17.7
Endosulfan II	ND	208
Endosulfan Sulfate	ND	20.8
Endrin	ND	104
Endrin aldehyde	ND	10.4
Heptachlor	ND	208
Heptachlor Epoxide	ND	521
Methoxychlor	ND	1040
Toxaphene	ND	2080
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	94	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-061            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-16                 MATRIX:         SOIL
% MOISTURE: 6.7                       DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	89	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-062          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-17                MATRIX:         SOIL
% MOISTURE:  4.4                    DILUTION FACTOR: 1
=====
  
```

3-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.8
alpha-BHC	ND	10.5
beta-BHC	ND	20.9
delta-BHC	ND	26.2
gamma-BHC (Lindane)	ND	17.8
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	39	20.9
Endosulfan I	ND	17.8
Endosulfan II	ND	20.9
Endosulfan Sulfate	ND	20.9
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	20.9
Heptachlor Epoxide	ND	523
Methoxychlor	ND	1050
Toxaphene	ND	2090

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	101	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                                DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE                 DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                             DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-063                     DATE ANALYZED:  06/06/96
CONTROL NO.: F009-18                           MATRIX:         SOIL
% MOISTURE:  12.1                               DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	114
Endosulfan I	ND	22.8
Endosulfan II	ND	19.3
Endosulfan Sulfate	ND	228
Endrin	ND	22.8
Endrin aldehyde	ND	114
Heptachlor	ND	11.4
Heptachlor Epoxide	ND	228
Methoxychlor	ND	569
Toxaphene	ND	1140
		2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	92	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

LDC #: 1920D3 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 96F009 EPA Level III X NFESC Level C
 Laboratory: CKY, Inc.

Date: 8-12-96
 Page: 1 of 1
 Reviewer: 2)
 2nd Reviewer: [Signature]

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: <u>6-1-96</u>
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	<u>.1. RSD</u>
IV.	Continuing calibration	<u>A²SW</u>	<u>.1. RSD 0</u>
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	
VIII.	Laboratory control samples	A	<u>LCS</u>
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	<u>SW</u>	<u>D1 = 3.4 * D2 = 14.15 * = ND</u>
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinsate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	CLJ100-CS-048 ✓	<u>soil</u>	11	CLJ100-CS-057 ✓	<u>soil</u>	21	<u>mBLK 15</u>	<u>soil</u>
2	CLJ100-CS-049 ✓		12	CLJ100-CS-058 ✓		22		
3	CLJ100-CS-050 ✓		13	CLJ100-CS-059 ✓		23		
4	CLJ100-CS-050DP ✓		14	CLJ100-CS-060 ✓		24		
5	CLJ100-CS-051 ✓		15	CLJ100-CS-060DP		25		
6	CLJ100-CS-052 ✓		16	CLJ100-CS-061 ✓		26		
7	CLJ100-CS-053 ✓		17	CLJ100-CS-062 ✓		27		
8	CLJ100-CS-054 ✓		18	CLJ100-CS-063 ✓		28		
9	CLJ100-CS-055 ✓		19	CLJ100-CS-048MS		29		
10	CLJ100-CS-056 ✓		20	CLJ100-CS-048MSD		30		

LDC #: 19203
SDG #: 96F009

VALIDATION FINDINGS WORKSHEET Continuing Calibration

Page: 1 of 1
Reviewer: [signature]
2nd Reviewer: [signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

- What type or calibration verification calculation was performed? %D or ___ RPD
- N N/A Were Evaluation mix standards run before initial calibration and before samples?
- N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard ($\leq 20.0\%$ for individual breakdowns)?
- N N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve?
- ~~N~~ N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?
- N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of $\leq 15.0\%$?

Level IV/D Only

- N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?
- N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)
- N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more than 10 samples were analyzed between ccv's.			()	()	all samples, 96F009 and blank.	None/A
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- | | | | | | | | | |
|--------------|-----------------------|------------------|-----------------------|--------------------|-----------------|------------------|-------------|-----------|
| A. Alpha-BHC | E. Heptachlor | I. Dieldrin | M. 4,4'-DDD | Q. Endrin ketone | U. Toxaphene | Y. Aroclor-1242 | CC. DB 608 | GG. _____ |
| B. Beta-BHC | F. Aldrin | J. 4,4'-DDE | N. Endosulfan sulfate | R. Endrin aldehyde | V. Aroclor-1016 | Z. Aroclor-1248 | DD. DB 1701 | HH. _____ |
| C. Delta-BHC | G. Heptachlor epoxide | K. Endrin | O. 4,4'-DDT | S. Alpha-chlordane | W. Aroclor-1221 | AA. Aroclor-1254 | EE. _____ | II. _____ |
| D. Gamma-BHC | H. Endosulfan I | L. Endosulfan II | P. Methoxychlor | T. Gamma-chlordane | X. Aroclor-1232 | BB. Aroclor-1260 | FF. _____ | JJ. _____ |

LDC #: 192003
SDG #: 96F009

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
Reviewer: 2
2nd reviewer: h

OD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

N N/A
 N N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in thie field duplicate pairs?

Compound	Concentration (mg/kg)		RPD
	3	4	
<i>Dieldrin</i>	62	100	47

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: June 4, 1996
LDC Report Date: August 14, 1996
Matrix: Soil/Water
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.

Sample Delivery Group (SDG): 96F014

Sample Identification

CLJ100-CS-064
CLJ100-CS-065
CLJ100-CS-066
CLJ100-CS-068
CLJ100-CS-069
CLJ100-CS-071
CLJ100-CS-073
CLJ100-CS-074
CLJ100-CS-075
CLJ100-CS-077
CLJ100-CS-078
CLJ100-CS-079
CLJ100-FB-604
CLJ100-RB-604
CLJ100-CS-064MS
CLJ100-CS-064MSD

Introduction

This data review covers 14 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All soil samples in SDG 96F014	All TCL compounds	More than ten samples were run between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were

within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

XV. Field Blanks

Sample CLJ100-FB-604 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-RB-604 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

**Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96F014**

No Sample Data Qualified in this SDG

**Camp Lejeune
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG
96F014**

No Sample Data Qualified in this SDG

EPA METHOD 8080
PESTICIDES

E

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F014
SAMPLE ID:   CLJ100-CS-064
CONTROL NO.: F014-01
% MOISTURE:  3.4

DATE COLLECTED: 06/04/96
DATE RECEIVED:  06/05/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/07/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
    
```

2
6.20.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.6
alpha-BHC	ND	10.4
beta-BHC	ND	20.7
delta-BHC	ND	25.9
gamma-BHC (Lindane)	ND	17.6
alpha-Chlordane	ND	104
gamma-Chlordane	ND	104
4,4'-DDD	ND	104
4,4'-DDE	ND	104
4,4'-DDT	ND	104
Dieldrin	ND	20.7
Endosulfan I	ND	17.6
Endosulfan II	ND	207
Endosulfan Sulfate	ND	20.7
Endrin	ND	104
Endrin aldehyde	ND	10.4
Heptachlor	ND	207
Heptachlor Epoxide	ND	518
Methoxychlor	ND	1040
Toxaphene	ND	2070
URROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	87	20-150
Decachlorobiphenyl	85	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F014
SAMPLE ID:   CLJ100-CS-065
CONTROL NO.: F014-02
% MOISTURE:  13.9
DATE COLLECTED: 06/04/96
DATE RECEIVED:  06/05/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/07/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

2)
3-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.2
delta-BHC	ND	29
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	23.2
Endosulfan I	ND	19.7
Endosulfan II	ND	232
Endosulfan Sulfate	ND	23.2
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	232
Heptachlor Epoxide	ND	581
Methoxychlor	ND	1160
Toxaphene	ND	2320
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	92	20-150
Decachlorobiphenyl	85	20-150

RL: Reporting Limit

004

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-066          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-03                MATRIX:         SOIL
% MOISTURE:  13.5                    DILUTION FACTOR: 1
=====
  
```

3-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	220	116
gamma-Chlordane	230	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	23.1
Endosulfan I	ND	19.7
Endosulfan II	ND	23.1
Endosulfan Sulfate	ND	23.1
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	231
Heptachlor Epoxide	ND	578
Methoxychlor	ND	1160
Toxaphene	ND	2310

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	89	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

005

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F014
SAMPLE ID:   CLJ100-CS-068
CONTROL NO.: F014-05
% MOISTURE:  14.3
DATE COLLECTED: 06/04/96
DATE RECEIVED:  06/05/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/07/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

12
S-20-16

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.7
beta-BHC	ND	23.3
delta-BHC	ND	29.2
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	233
Heptachlor Epoxide	ND	583
Methoxychlor	ND	1170
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	85	20-150
Decachlorobiphenyl	90	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-069           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-06                 MATRIX:         SOIL
% MOISTURE:  12.6                    DILUTION FACTOR: 1
=====
  
```

2)
3-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	35	19.5
alpha-BHC	ND	11.4
beta-BHC	ND	22.9
delta-BHC	ND	28.6
gamma-BHC (Lindane)	ND	19.5
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	180	114
4,4'-DDE	210	114
4,4'-DDT	ND	114
Dieldrin	58	22.9
Endosulfan I	ND	19.5
Endosulfan II	ND	229
Endosulfan Sulfate	ND	22.9
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	229
Heptachlor Epoxide	ND	572
Methoxychlor	ND	1140
Toxaphene	ND	2290
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	91	20-150

=====
RL: Reporting Limit

007

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-071          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-09                MATRIX:         SOIL
% MOISTURE:  11.9                    DILUTION FACTOR: 1
=====
  
```

8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	ND	22.7
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	227
Heptachlor Epoxide	ND	568
Methoxychlor	ND	1140
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

008

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-073            DATE ANALYZED:  06/07/96
CONTROL NO.: F014-11                 MATRIX:         SOIL
% MOISTURE:  14.1                     DILUTION FACTOR: 1
=====
  
```

2)
5.22-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.6
beta-BHC	ND	23.3
delta-BHC	ND	29.1
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	233
Heptachlor Epoxide	ND	582
Methoxychlor	ND	1160
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F014
SAMPLE ID:   CLJ100-CS-074
CONTROL NO.: F014-12
% MOISTURE:  15.3
DATE COLLECTED: 06/04/96
DATE RECEIVED:  06/05/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/07/96
MATRIX:      SOIL
DILUTION FACTOR: 1
=====
  
```

2-2-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.1
alpha-BHC	ND	11.8
beta-BHC	ND	23.6
delta-BHC	ND	29.5
gamma-BHC (Lindane)	ND	20.1
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	ND	118
4,4'-DDT	ND	118
Dieldrin	ND	23.6
Endosulfan I	ND	20.1
Endosulfan II	ND	236
Endosulfan Sulfate	ND	23.6
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	236
Heptachlor Epoxide	ND	590
Methoxychlor	ND	1180
Toxaphene	ND	2360
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	92	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:  96F014                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-075           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-13                 MATRIX:         SOIL
% MOISTURE:  12.0                     DILUTION FACTOR: 1
=====
  
```

3-26-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	ND	22.7
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	590*	114
4,4'-DDE	ND	114
4,4'-DDT	160	114
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	227
Heptachlor Epoxide	ND	568
Methoxychlor	ND	1140
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit
* : Analyzed at DF=5 due to high concentration level

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-077          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-15                MATRIX:         SOIL
% MOISTURE:  9.5                    DILUTION FACTOR: 1
=====

```

8.20.76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	91	20-150

RL: Reporting Limit

012

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/05/96
BATCH NO.:  96F014                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-078            DATE ANALYZED:  06/07/96
CONTROL NO.: F014-16                MATRIX:         SOIL
% MOISTURE: 9.4                      DILUTION FACTOR: 1
=====
  
```

2/ P-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	80	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F014
SAMPLE ID:   CLJ100-CS-079
CONTROL NO.: F014-17
% MOISTURE:  10.1

DATE COLLECTED: 06/04/96
DATE RECEIVED:  06/05/96
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/07/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
  
```

Handwritten: 8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.9
alpha-BHC	ND	11.1
beta-BHC	ND	22.2
delta-BHC	ND	27.8
gamma-BHC (Lindane)	ND	18.9
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.2
Endosulfan I	ND	18.9
Endosulfan II	ND	222
Endosulfan Sulfate	ND	22.2
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	222
Heptachlor Epoxide	ND	556
Methoxychlor	ND	1110
Toxaphene	ND	2220

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/05/96
BATCH NO.:  96F014                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-FB-604            DATE ANALYZED:  06/07/96
CONTROL NO.: F014-18                 MATRIX:         WATER
% MOISTURE: NA                       DILUTION FACTOR: 1
=====
  
```

2)
8-22-96

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	90	30-150
Decachlorobiphenyl	71	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/05/96
BATCH NO.:  96F014                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-RB-604            DATE ANALYZED:  06/07/96
CONTROL NO.: F014-19                 MATRIX:         WATER
% MOISTURE: NA                       DILUTION FACTOR: 1
=====
  
```

2)
3-20-96

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	93	30-150
Decachlorobiphenyl	59	24-154

RL: Reporting Limit

LDC #: 1920E3 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 96F014 EPA Level III X NFESC Level C
 Laboratory: CKY, Inc.

Date: 8-12-96
 Page: 1 of 1
 Reviewer: 2J
 2nd Reviewer: JA

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6-4-96
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	.1. RSD
IV.	Continuing calibration	2 ASW	.1. RSD
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	NO AQ MS/MSO, QC Samples
VIII.	Laboratory control samples	A	LCS/LCSD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	ND	FB = 13 R = 14

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinstate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	CLJ100-CS-064 ✓	soil	11	CLJ100-CS-078 ✓	soil	21	
2	CLJ100-CS-065 ✓		12	CLJ100-CS-079 ✓	↓	22	
3	CLJ100-CS-066 ✓		13 FB	CLJ100-FB-604 ✓	AQ	23	
4	CLJ100-CS-068 ✓		14 R	CLJ100-RB-604 ✓	↓	24	
5	CLJ100-CS-069 ✓		15	CLJ100-CS-064MS	soil	25	
6	CLJ100-CS-071 ✓		16	CLJ100-CS-064MSD	↓	26	
7	CLJ100-CS-073 ✓		17	MBLK 15	↓	27	
8	CLJ100-CS-074 ✓		18	MBLK 1W	AQ	28	
9	CLJ100-CS-075 ✓		19			29	
10	CLJ100-CS-077 ✓		20			30	

LDC #: 1F 23
SDG #: 96F014

VALIDATION FILE GS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: 2)
2nd Reviewer: al

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

- N N/A What type or calibration verification calculation was performed? X %D or ___ RPD
- N N/A Were Evaluation mix standards run before initial calibration and before samples?
- N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard ($\leq 20.0\%$ for individual breakdowns)?
- N N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve?
- N N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?
- N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of $\leq 15.0\%$?

Level IV/D Only

- N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?
- N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)
- N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more than 10		samples were		()	all soil samples	None/A
		and analyzed		between	CCV'S.	()	was/was + blank	
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|--------------|-----------------------|------------------|-----------------------|--------------------|-----------------|------------------|-------------|-----------|
| A. Alpha-BHC | E. Heptachlor | I. Dieldrin | M. 4,4'-DDD | Q. Endrin ketone | U. Toxaphene | Y. Aroclor-1242 | CC. DB 608 | GG. _____ |
| B. Beta-BHC | F. Aldrin | J. 4,4'-DDE | N. Endosulfan sulfate | R. Endrin aldehyde | V. Aroclor-1016 | Z. Aroclor-1248 | DD. DB 1701 | HH. _____ |
| C. Delta-BHC | G. Heptachlor epoxide | K. Endrin | O. 4,4'-DDT | S. Alpha-chlordane | W. Aroclor-1221 | AA. Aroclor-1254 | EE. _____ | II. _____ |
| D. Gamma-BHC | H. Endosulfan I | L. Endosulfan II | P. Methoxychlor | T. Gamma-chlordane | X. Aroclor-1232 | BB. Aroclor-1260 | FF. _____ | JJ. _____ |

CONCAL.3S *Lab. Used 12 hr. interval.*

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: June 5, 1996
LDC Report Date: August 14, 1996
Matrix: Soil
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.
Sample Delivery Group (SDG): 96F019

Sample Identification

CLJ100-CS-080
CLJ100-CS-080DP
CLJ100-CS-081
CLJ100-CS-082
CLJ100-CS-083
CLJ100-CS-084
CLJ100-CS-085
CLJ100-CS-086
CLJ100-CS-087
CLJ100-CS-088
CLJ100-CS-089
CLJ100-CS-090
CLJ100-CS-090DP
CLJ100-CS-091
CLJ100-CS-092
CLJ100-CS-093
CLJ100-CS-094
CLJ100-CS-095

Introduction

This data review covers 18 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96F019	All TCL compounds	More than ten samples were run between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were

within QC limits.

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-080 and CLJ100-CS-080DP and samples CLJ100-CS-090 and CLJ100-CS-090DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples.

XV. Field Blanks

No field blanks were identified in this SDG.

Camp Lejeune

Chlorinated Pesticides - Data Qualification Summary - SDG 96F019

No Sample Data Qualified in this SDG

Camp Lejeune

Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F019

No Sample Data Qualified in this SDG

EPA METHOD 8080
PESTICIDES

F

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.:  96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-080            DATE ANALYZED:  06/08/96
CONTROL NO.: F019-01                 MATRIX:         SOIL
% MOISTURE: 7.6                      DILUTION FACTOR: 1
=====
  
```

2
8-26-97

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.: 96F019                    DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-080DP          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-02                 MATRIX:         SOIL
% MOISTURE: 7.3                       DILUTION FACTOR: 1
=====
  
```

2
3-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.3
Endosulfan II	ND	21.6
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	21.6
Heptachlor Epoxide	ND	539
Methoxychlor	ND	1080
Toxaphene	ND	2160

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	104	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-081           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-03                 MATRIX:         SOIL
% MOISTURE:  9.0                     DILUTION FACTOR: 1
=====
  
```

8.20

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.7
alpha-BHC	ND	11
beta-BHC	ND	22
delta-BHC	ND	27.5
gamma-BHC (Lindane)	ND	18.7
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	22
Endosulfan I	ND	18.7
Endosulfan II	ND	220
Endosulfan Sulfate	ND	22
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	220
Heptachlor Epoxide	ND	549
Methoxychlor	ND	1100
Toxaphene	ND	2200
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F019
SAMPLE ID:   CLJ100-CS-082
CONTROL NO.: F019-04
% MOISTURE:  6.8

DATE COLLECTED: 06/05/96
DATE RECEIVED:  06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED:  06/08/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
  
```

3.20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.2
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	106	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-083          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-05                MATRIX:         SOIL
% MOISTURE:  8.0                     DILUTION FACTOR: 1
=====
  
```

8-23-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.5
alpha-BHC	ND	10.9
beta-BHC	ND	21.7
delta-BHC	ND	27.2
gamma-BHC (Lindane)	ND	18.5
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	21.7
Endosulfan I	ND	18.5
Endosulfan II	ND	217
Endosulfan Sulfate	ND	21.7
Endrin	ND	109
Endrin aldehyde	ND	10.9
Heptachlor	ND	217
Heptachlor Epoxide	ND	543
Methoxychlor	ND	1090
Toxaphene	ND	2170
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	104	20-150

=====
RL: Reporting Limit

07

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-084           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-06                 MATRIX:         SOIL
% MOISTURE:  8.5                     DILUTION FACTOR: 1
=====
  
```

6-26-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.6
alpha-BHC	ND	10.9
beta-BHC	ND	21.9
delta-BHC	ND	27.3
gamma-BHC (Lindane)	ND	18.6
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	21.9
Endosulfan I	ND	18.6
Endosulfan II	ND	219
Endosulfan Sulfate	ND	21.9
Endrin	ND	109
Endrin aldehyde	ND	10.9
Heptachlor	ND	219
Heptachlor Epoxide	ND	546
Methoxychlor	ND	1090
Toxaphene	ND	2190

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	82	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-085           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-07                 MATRIX:         SOIL
% MOISTURE:  11.1                    DILUTION FACTOR: 1
=====
  
```

g-20-91

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.1
alpha-BHC	ND	11.2
beta-BHC	ND	22.5
delta-BHC	ND	28.1
gamma-BHC (Lindane)	ND	19.1
alpha-Chlordane	ND	112
gamma-Chlordane	ND	112
4,4'-DDD	ND	112
4,4'-DDE	ND	112
4,4'-DDT	ND	112
Dieldrin	180	22.5
Endosulfan I	ND	19.1
Endosulfan II	ND	225
Endosulfan Sulfate	ND	22.5
Endrin	ND	112
Endrin aldehyde	ND	11.2
Heptachlor	ND	225
Heptachlor Epoxide	ND	562
Methoxychlor	ND	1120
Toxaphene	ND	2250

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	89	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-086           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-08                 MATRIX:         SOIL
% MOISTURE:  6.8                     DILUTION FACTOR: 1
=====
  
```

2
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.2
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2150

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	90	20-150
Decachlorobiphenyl	110	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-087           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-09                 MATRIX:         SOIL
% MOISTURE:  5.2                     DILUTION FACTOR: 1
=====
  
```

2
8-20

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.9
alpha-BHC	ND	10.5
beta-BHC	ND	21.1
delta-BHC	ND	26.4
gamma-BHC (Lindane)	ND	17.9
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21.1
Endosulfan I	ND	17.9
Endosulfan II	ND	211
Endosulfan Sulfate	ND	21.1
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	211
Heptachlor Epoxide	ND	527
Methoxychlor	ND	1050
Toxaphene	ND	2110
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	106	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-088           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-10                 MATRIX:         SOIL
% MOISTURE:  6.9                     DILUTION FACTOR: 1
=====
  
```

2)
8-20-76

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	537
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.: 96F019                    DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-089            DATE ANALYZED:  06/08/96
CONTROL NO.: F019-11                 MATRIX:         SOIL
% MOISTURE: 5.1                      DILUTION FACTOR: 1
=====
  
```

8.20

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.9
alpha-BHC	ND	10.5
beta-BHC	ND	21.1
delta-BHC	ND	26.3
gamma-BHC (Lindane)	ND	17.9
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21.1
Endosulfan I	ND	17.9
Endosulfan II	ND	211
Endosulfan Sulfate	ND	21.1
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	211
Heptachlor Epoxide	ND	527
Methoxychlor	ND	1050
Toxaphene	ND	2110

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	109	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F019
SAMPLE ID:   CLJ100-CS-090
CONTROL NO.: F019-12
% MOISTURE:  6.6
DATE COLLECTED: 06/05/96
DATE RECEIVED:  06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED:  06/08/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====
  
```

2)
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	535
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	20-150
Decachlorobiphenyl	103	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-090DP        DATE ANALYZED:  06/08/96
CONTROL NO.: F019-13                MATRIX:         SOIL
% MOISTURE:  6.9                    DILUTION FACTOR: 1
=====
  
```

3.2c

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	537
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	85	20-150
Decachlorobiphenyl	111	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-091            DATE ANALYZED:  06/08/96
CONTROL NO.: F019-14                 MATRIX:         SOIL
% MOISTURE:  13.4                     DILUTION FACTOR: 1
=====
  
```

21
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	260	115
4,4'-DDT	160	115
Dieldrin	180	23.1
Endosulfan I	ND	19.6
Endosulfan II	ND	231
Endosulfan Sulfate	ND	23.1
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	231
Heptachlor Epoxide	ND	577
Methoxychlor	ND	1150
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	87	20-150
Decachlorobiphenyl	110	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                                DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE                 DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                             DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-092                     DATE ANALYZED:  06/08/96
CONTROL NO.: F019-15                            MATRIX:         SOIL
% MOISTURE:  12.0                               DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	70	22.7
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	140	114
4,4'-DDT	ND	114
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	227
Heptachlor Epoxide	ND	568
Methoxychlor	ND	1140
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	105	20-150
Decachlorobiphenyl	125	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-093           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-16                 MATRIX:         SOIL
% MOISTURE:  17.7                    DILUTION FACTOR: 1
=====
  
```

3.26.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.7
alpha-BHC	ND	12.2
beta-BHC	ND	24.3
delta-BHC	ND	30.4
gamma-BHC (Lindane)	ND	20.7
alpha-Chlordane	ND	122
gamma-Chlordane	ND	122
4,4'-DDD	ND	122
4,4'-DDE	ND	122
4,4'-DDT	ND	122
Dieldrin	ND	24.3
Endosulfan I	ND	20.7
Endosulfan II	ND	243
Endosulfan Sulfate	ND	24.3
Endrin	ND	122
Endrin aldehyde	ND	12.2
Heptachlor	ND	243
Heptachlor Epoxide	ND	608
Methoxychlor	ND	1220
Toxaphene	ND	2430
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	81	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:  96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-094           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-17                MATRIX:         SOIL
% MOISTURE: 13.5                    DILUTION FACTOR: 1
=====
  
```

2/ 3.20 8/8

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	23.1
Endosulfan I	ND	19.7
Endosulfan II	ND	23.1
Endosulfan Sulfate	ND	23.1
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	231
Heptachlor Epoxide	ND	578
Methoxychlor	ND	1160
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	110	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F019
SAMPLE ID:   CLJ100-CS-095
CONTROL NO.: F019-18
% MOISTURE:  16.3

DATE COLLECTED: 06/05/96
DATE RECEIVED:  06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED:  06/08/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
  
```

2
8.20.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.3
alpha-BHC	ND	11.9
beta-BHC	ND	23.9
delta-BHC	ND	29.9
gamma-BHC (Lindane)	ND	20.3
alpha-Chlordane	ND	119
gamma-Chlordane	ND	119
4,4'-DDD	ND	119
4,4'-DDE	ND	119
4,4'-DDT	ND	119
Dieldrin	ND	119
Endosulfan I	ND	23.9
Endosulfan II	ND	20.3
Endosulfan Sulfate	ND	239
Endrin	ND	23.9
Endrin aldehyde	ND	119
Heptachlor	ND	11.9
Heptachlor Epoxide	ND	239
Methoxychlor	ND	597
Toxaphene	ND	1190
		2390
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	110	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

LDC #: 1920F3 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 96F019 EPA Level III X NFESC Level C
 Laboratory: CKY, Inc.

Date: 8-12-96
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6-5-96
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	-.250
IV.	Continuing calibration	A SW	-.10
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	A	From other SOG
VIII.	Laboratory control samples	A	LCS
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	ND	D ₁ = 1, 2 D ₂ = 12, 13
XV.	Field blanks	N	

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinstate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	D ₁ CLJ100-CS-080 ✓	soil	11	CLJ100-CS-089 ✓	soil	21
2	CLJ100-CS-080DP ✓		12	CLJ100-CS-090 ✓		22
3	CLJ100-CS-081 ✓		13	CLJ100-CS-090DP ✓		23
4	CLJ100-CS-082 ✓		14	CLJ100-CS-091 ✓		24
5	CLJ100-CS-083 ✓		15	CLJ100-CS-092 ✓		25
6	CLJ100-CS-084 ✓		16	CLJ100-CS-093 ✓		26
7	CLJ100-CS-085 ✓		17	CLJ100-CS-094 ✓		27
8	CLJ100-CS-086 ✓ (a)		18	CLJ100-CS-095 ✓		28
9	CLJ100-CS-087 ✓		19	MBLK15		29
10	CLJ100-CS-088 ✓		20			30

LDC #: 19 3
SDG #: 96F019

VALIDATION FII GS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

- N N/A What type or calibration verification calculation was performed? X %D or ___ RPD
 - N N/A Were Evaluation mix standards run before initial calibration and before samples?
 - N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard (<20.0% for individual breakdowns)?
 - N N/A Was at least one individual Mix standards A and/or B run daily to verify the working curve?
 - N N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?
 - N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of $\leq 15.0\%$?
- Level IV/D Only
- N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?
 - N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)
 - N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more than 10		samples were		()	all samples	None/A
		and analyzed		between	ccv's.	()	+ blank	
						()		
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- A. Alpha-BHC
- E. Heptachlor
- I. Dieldrin
- M. 4,4'-DDD
- Q. Endrin ketone
- U. Toxaphene
- Y. Aroclor-1242
- CC. DB 608
- GG. _____
- B. Beta-BHC
- F. Aldrin
- J. 4,4'-DDE
- N. Endosulfan sulfate
- R. Endrin aldehyde
- V. Aroclor-1016
- Z. Aroclor-1248
- DD. DB 1701
- HH. _____
- C. Delta-BHC
- G. Heptachlor epoxide
- K. Endrin
- O. 4,4'-DDT
- S. Alpha-chlordane
- W. Aroclor-1221
- AA. Aroclor-1254
- EE. _____
- II. _____
- D. Gamma-BHC
- H. Endosulfan I
- L. Endosulfan II
- P. Methoxychlor
- T. Gamma-chlordane
- X. Aroclor-1232
- BB. Aroclor-1260
- FF. _____
- JJ. _____

**Laboratory Data Consultants, Inc.
Data Validation Report**

Project/Site Name: Camp Lejeune
Collection Date: June 6, 1996
LDC Report Date: August 20, 1996
Matrix: Soil/Water
Parameters: Chlorinated Pesticides
Laboratory: CKY, Inc.

Sample Delivery Group (SDG): 96F022

Sample Identification

CLJ100-CS-096
CLJ100-CS-097
CLJ100-CS-099
CLJ100-RB-606
CLJ100-FB-606
CLJ100-CS-100
CLJ100-CS-100DP
CLJ100-CS-096MS
CLJ100-CS-096MSD

Introduction

This data review covers 7 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8080 for Chlorinated Pesticides.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (February 1994) as there are no current guidelines for EPA SW 846 Method 8080. The modifications were based on EPA SW 846 Method 8080.

A table summarizing all data qualification flags is provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

- U Indicates the compound or element was analyzed for but not detected at or above the stated limit.
- J Indicates an estimated value.
- R Quality control indicates the data is not usable.
- N Presumptive evidence of presence of the constituent.
- UJ Indicates the compound or element was analyzed for but not detected. The sample detection limit is an estimated value.
- A Indicates the finding is based upon technical validation criteria.
- P Indicates the finding is related to a protocol/contractual deviation.
- None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

II. GC/ECD Instrument Performance Check

Instrument performance was acceptable unless noted otherwise under initial calibration and continuing calibration sections.

III. Initial Calibration

Initial calibration of single and multicomponent compounds was performed for the primary (quantitation) column and confirmation column as required by this method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

IV. Continuing Calibration

Continuing calibration was performed at required frequencies with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 96F022	All TCL compounds	More than ten samples were run between CCVs.	No more than ten samples to be run between CCVs.	None	A

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

The individual 4,4'-DDT and Endrin breakdowns were less than 20.0% .

V. Blanks

Method blanks were reviewed for each matrix as applicable. No chlorinated pesticide contaminants were found in the method blanks.

VI. Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

VII. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were

within QC limits with the following exceptions:

Sample (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
CLJ100-CS-096MS/MSD (All soil samples in SDG 96F022)	4,4-DDD	-	-	62 (≤ 50)	J	A

VIII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

IX. Regional Quality Assurance and Quality Control

Not applicable.

X. Pesticide Cleanup Checks

a. Florisil Cartridge Check

Florisil cleanup was not required and therefore not performed in this SDG.

b. GPC Calibration

GPC cleanup was not required and therefore not performed in this SDG.

XI. Target Compound Identification

Raw data were not reviewed for this SDG.

XII. Compound Quantitation and Reported CRQLs

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report.

XIV. Field Duplicates

Samples CLJ100-CS-100 and CLJ100-CS-100DP were identified as field duplicates. No chlorinated pesticides were detected in any of the samples with the following exceptions:

Compound	Concentration (ug/Kg)		RPD
	CLJ100-CS-100	CLJ100-CS-100DP	
Aldrin	31	ND	Not calculable

XV. Field Blanks

Sample CLJ100-FB-606 was identified as a field blank. No chlorinated pesticide contaminants were found in this blank.

Sample CLJ100-RB-606 was identified as a rinsate. No chlorinated pesticide contaminants were found in this blank.

**Camp Lejeune
Chlorinated Pesticides - Data Qualification Summary - SDG 96F022**

SDG	Sample	Compound	Flag	A or P	Reason
96F022	CLJ100-CS-096 CLJ100-CS-097 CLJ100-CS-099 CLJ100-CS-100 CLJ100-CS-100DP	4,4-DDD	J	A	Matrix spike/Matrix spike duplicates (RPD)

**Camp Lejeune
Chlorinated Pesticides - Laboratory Blank Data Qualification Summary - SDG 96F022**

No Sample Data Qualified in this SDG

EPA METHOD 8080
PESTICIDES

6

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CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                   DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-096           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-01                 MATRIX:         SOIL
% MOISTURE:  11.7                     DILUTION FACTOR: 1
=====

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8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.3
beta-BHC	ND	22.7
delta-BHC	ND	28.3
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	ND	113
4,4'-DDE	ND	113
4,4'-DDT	ND	113
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	227
Heptachlor Epoxide	ND	566
Methoxychlor	ND	1130
Toxaphene	ND	2270

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	98	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:  96F022                   DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-097           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-02                 MATRIX:         SOIL
% MOISTURE:  12.4                     DILUTION FACTOR: 1
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DJ
8-20-96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	571
Methoxychlor	ND	1140
Toxaphene	ND	2280

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	103	20-150

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F022
SAMPLE ID:   CLJ100-CS-099 --- --
CONTROL NO.: F022-04
% MOISTURE:  12.3
DATE COLLECTED: 06/06/96
DATE RECEIVED:  06/07/96
DATE EXTRACTED: 06/09/96
DATE ANALYZED:  06/10/96
MATRIX:       SOIL
DILUTION FACTOR: 1
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8.20.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	570
Methoxychlor	ND	1140
Toxaphene	ND	2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	84	20-150
Decachlorobiphenyl	107	20-150

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

6

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CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                  DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-100           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-07                 MATRIX:         SOIL
% MOISTURE:  14.8                    DILUTION FACTOR: 1
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Handwritten: 20-1

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	31	20
alpha-BHC	ND	11.7
beta-BHC	ND	23.5
delta-BHC	ND	29.3
gamma-BHC (Lindane)	ND	20
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.5
Endosulfan I	ND	20
Endosulfan II	ND	235
Endosulfan Sulfate	ND	23.5
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	235
Heptachlor Epoxide	ND	587
Methoxychlor	ND	1170
Toxaphene	ND	2350
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	94	20-150
Decachlorobiphenyl	105	20-150

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RL: Reporting Limit

7

EPA METHOD 8080
PESTICIDES

7

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CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F022
SAMPLE ID:   CLJ100-CS-100DP
CONTROL NO.: F022-08
% MOISTURE:  14.9

DATE COLLECTED: 06/06/96
DATE RECEIVED:  06/07/96
DATE EXTRACTED: 06/09/96
DATE ANALYZED:  06/10/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
  
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QJ
A.20.96

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20
alpha-BHC	ND	11.8
beta-BHC	ND	23.5
delta-BHC	ND	29.4
gamma-BHC (Lindane)	ND	20
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	ND	118
4,4'-DDT	ND	118
Dieldrin	ND	23.5
Endosulfan I	ND	20
Endosulfan II	ND	235
Endosulfan Sulfate	ND	23.5
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	235
Heptachlor Epoxide	ND	588
Methoxychlor	ND	1180
Toxaphene	ND	2350
SURROGATE PARAMETER		

Tetrachloro-m-xylene	82	20-150
Decachlorobiphenyl	104	20-150

4

RL: Reporting Limit

8

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F022
SAMPLE ID:   CLJ100-RB-606
CONTROL NO.: F022-05
% MOISTURE:  NA
DATE COLLECTED: 06/06/96
DATE RECEIVED:  06/07/96
DATE EXTRACTED: 06/11/96
DATE ANALYZED:  06/12/96
MATRIX:        WATER
DILUTION FACTOR: 1
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2
8-20-96

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
JRROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	30-150
Decachlorobiphenyl	106	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                   DATE EXTRACTED: 06/11/96
SAMPLE ID:   CLJ100-FB-606            DATE ANALYZED:  06/12/96
CONTROL NO.: F022-06                  MATRIX:         WATER
% MOISTURE:  NA                        DILUTION FACTOR: 1
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D)
8-26-96

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	30-150
Decachlorobiphenyl	109	24-154

RL: Reporting Limit

LDC #: 1920G3 **VALIDATION COMPLETENESS WORKSHEET**
 SDG #: 96F022 EPA Level III X NFESC Level C
 Laboratory: CKY, Inc.

Date: 8-12-96
 Page: 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Organochlorine Pesticides (EPA SW 846 Method 8080)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 6-6-96
II.	GC/ECD Instrument Performance Check	A	
III.	Initial calibration	A	%. RSD
IV.	Continuing calibration	SW	%. D
V.	Blanks	A	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	SW	No AQ MS/MSD, QC samples
VIII.	Laboratory control samples	A	LCS/LCSD
IX.	Regional quality assurance and quality control	N	
Xa.	Florisil cartridge check	N	
Xb.	GPC Calibration	N	
XI.	Target compound identification	N	
XII.	Compound quantitation and reported CRQLs	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	SW	D = 6.7 ← = NO
XV.	Field blanks	NO	R = 4 FB = 5

Note: A = Acceptable ND = No compounds detected D = Duplicate
 N = Not provided/applicable R = Rinstate TB = Trip blank
 SW = See worksheet FB = Field blank EB = Equipment blank

Validated Samples:

1	CLW100-CS-096 ✓	soil	11	MBLKIW	AQ	21	
2	CLW100-CS-097 ✓	↓	12			22	
3	CLW100-CS-099 ✓	↓	13			23	
4	CLW100-RB-606 ✓	AQ	14			24	
5	CLW100-FB-606 ✓	↓	15			25	
6	CLW100-CS-100 ✓	soil	16			26	
7	CLW100-CS-100DP	↓	17			27	
8	CLW100-CS-096MS	↓	18			28	
9	CLW100-CS-096MSD	↓	19			29	
10	MBLKIS	↓	20			30	

LDC #: 133
SDG #: 96F022

VALIDATION FILE LOGS WORKSHEET
Continuing Calibration

a: 1 of 1
Reviewer: [Signature]
2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N" Not applicable questions are identified as "N/A".

- N N/A What type or calibration verification calculation was performed? %D or RPD
- N N/A Were Evaluation mix standards run before initial calibration and before samples?
- N N/A Were Endrin & 4,4'-DDT breakdowns acceptable in the Evaluation Mix standard ($\leq 20.0\%$ for individual breakdowns)?
- N N/A Was at least one Individual Mix standards A and/or B run daily to verify the working curve?
- N N/A Were continuing standards analyzed at a frequency of every 10 samples to verify the working curve?
- N N/A Did the continuing calibration standards meet the percent difference (%D) / relative percent difference (RPD) criteria of $\leq 15.0\%$?

Level IV/D Only

- N N/A Were the retention times for all calibrated compounds within their respective acceptance windows?
- N N/A Were the percent difference (%D) results recalculated? (Please see Calibration verification results verification worksheet.)
- N N/A Were the (%D) recalculated results within 10.0% of the reported results?

#	Date	Standard ID	Column	Compound	%D / RPD (Limit ≤ 15.0)	RT (Limits)	Associated Samples	Qualifications
1		more than 10 samples		were	()	()	all samples,	None/A
		and analyzed between		ccv's.	()	()	retest + blanks	
					()	()		
					()	()		
					()	()		
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- | | | | | | | | | |
|--------------|-----------------------|------------------|-----------------------|--------------------|-----------------|------------------|-------------|-----------|
| A. Alpha-BHC | E. Heptachlor | I. Dieldrin | M. 4,4'-DDD | Q. Endrin ketone | U. Toxaphene | Y. Aroclor-1242 | CC. DB 608 | GG. _____ |
| B. Beta-BHC | F. Aldrin | J. 4,4'-DDE | N. Endosulfan sulfate | R. Endrin aldehyde | V. Aroclor-1016 | Z. Aroclor-1248 | DD. DB 1701 | HH. _____ |
| C. Delta-BHC | G. Heptachlor epoxide | K. Endrin | O. 4,4'-DDT | S. Alpha-chlordane | W. Aroclor-1221 | AA. Aroclor-1254 | EE. _____ | II. _____ |
| D. Gamma-BHC | H. Endosulfan I | L. Endosulfan II | P. Methoxychlor | T. Gamma-chlordane | X. Aroclor-1232 | BB. Aroclor-1260 | FF. _____ | JJ. _____ |

CONCAL.3S Several compounds were out on closing ccv.

LDC #: 19 33
 SDG #: 96F022

VALIDATION FINAL WORKSHEET
Matrix Spike/Matrix Spike Duplicates

F 1 of 1
 Reviewer: [Signature]
 2nd Reviewer: [Signature]

METHOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

- Y (N) N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG?
Y (N) N/A Was a MS/MSD analyzed every 20 samples for each matrix or whenever a sample extraction was performed?
Y (N) N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits stated below?
 Level IV/D Only
Y (N) N/A Were the percent recoveries (%R) and the relative percent differences (RPD) recalculated?
Y (N) N/A Were the %R and RPD reported results within 10.0% of the recalculated results?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
1	6-10-90	819	G	()	()	62 (50)	all soil samples	J/A
				()	()	()		
				()	()	()		
				()	()	()		
				()	()	()		
				()	()	()		
				()	()	()		
				()	()	()		
				()	()	()		
				()	()	()		

Letter Designation	Compound	Soil QC Limits		Water QC Limits	
		% Recovery	RPD	% Recovery	RPD
A	Gamma-BHC				
B	Heptachlor				
C	Aldrin				
D	Dieldrin				
E	Endrin				
F	4,4'-DDT				
G	4,4'-DDE	20-170	50		
H					
I					
J					

LDC #: 1920G3
 SDG #: 96F022

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Page: 1 of 1
 Reviewer: 2
 2nd reviewer: W

HOD: GC Pesticides/PCBs (EPA SW 846 Method 8080)

N N/A
 Y N/A

Were field duplicate pairs identified in this SDG?

Were target compounds detected in thie field duplicate pairs?

Compound	Concentration (mg/kg)		RPD
	6	7	
<i>aldrin</i>	31	ND	NC

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD

Compound	Concentration ()		RPD



CKY incorporated Analytical Laboratories

Date: 06-07-1996
CKY Batch No.: 96E080

Ms. Missy Art

OHM
5335 Triangle Parkway Suite 450
Norcross GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 05/31/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-001	E080-01	Soil	EPA 8080
CLJ100-CS-005	E080-05	Soil	EPA 8080
CLJ100-CS-008	E080-08	Soil	EPA 8080
CLJ100-CS-009	E080-09	Soil	EPA 8080
CLJ100-CS-010	E080-10	Soil	EPA 8080
CLJ100-CS-010DP	E080-11	Soil	EPA 8080
CLJ100-CS-011	E080-12	Soil	EPA 8080
CLJ100-CS-012	R080-13	Soil	EPA 8080
CLJ100-CS-013	E080-14	Soil	EPA 8080
CLJ100-CS-014	E080-15	Soil	EPA 8080
CLJ100-RB-529	E080-16	water	EPA 8080
CLJ100-FB-529	E080-17	water	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CHAIN-OF-CUSTODY RECORD

76E080

76E080

D2

166571

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>18219</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>			
CLIENT'S REPRESENTATIVE <i>Vanda Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Duan / Alan Whitt</i>			
TCL PAST DUES (8080)					

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	15100-CS-001	5/29/96	1440		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	NEESA Level C
2	15100-CS-002	5/29/96	1445		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
3	15100-CS-003	5/29/96	1451		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
4	15100-CS-004	5/29/96	1503		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
5	15100-CS-005	5/29/96	1507		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
6	15100-CS-006	5/29/96	1512		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
7	15100-CS-007	5/29/96	1531		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
8	15100-CS-008	5/29/96	1536		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
9	15100-CS-009	5/29/96	1538		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	
10	15100-CS-010	5/29/96	1545		X	Confirmation Sample from Acc 1-12 Base	1-8oz	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Robert R. Acam</i>	<i>FED-EX 1921491286</i>	5/29/96	1700	<p>Samples sent to CKY Inc. 48 hour T.A.T. Please Fax Results to (910) 451-1509. Thanks. Hold Samples until confirmed with US.</p>
2				5/31/96	11:00 AM	
3						
4						

SAMPLER'S SIGNATURE

Robert R. Acam

CHAIN-OF-CUSTODY RECORD

16E080

11 FEB 1992

166572

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS							
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.	CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR						
ITEM NO.	SAMPLE NUMBER	DATE	TIME				COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				
Camp Lejeune		Camp Lejeune, N.C.		1-807	TCL PESTICIDES (80%)	T: 2' 4'							
18319 Alan Whitt		(910) 451-2599					X	NEESA Level C					
VANN Marshburn		Jim Dunn / Alan Whitt							X				
1	15100-CS-010	1/27/91	1545									X	Duplicate Confirmation Sample from Acc. 1-12 Base
2	15100-CS-011	1/27/91	1549									X	Confirmation Sample from Acc. 1-12 Siltwall
3	15100-CS-012	1/27/91	1552									X	Confirmation Sample from Acc. 1-12 Siltwall
4	15100-CS-013	1/27/91	1559									X	Confirmation Sample from Acc. 1-12 Siltwall
5	15100-CS-014	1/27/91	1600		X	Confirmation Sample from Acc. 1-12 Siltwall							
6	15100-FB-529	1/27/91	1603		X	Resate Blank							
7	15100-FB-529	1/27/91	1607		X	Field Blank							
8													
9													
10													

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	Alan R. Acan	FED-EX 6921491286	5/27/91	1700	Samples Sent To CHY Inc. 48 hour T.A.T. Please Fax Results To (910) 451-1809. Thanks Hold Samples until confirmed with US.
2				1/27/91	1600	
3						
4						

SAMPLER'S SIGNATURE
Alan R. Acan

CKY, INCORPORATED

TELEPHONE RECORD LOG

DATE OF CALL: 5/29/96
 CLIENT NAME: Carl Pampel - OTHM-(NC) (Camp. Lejeu)
 CALL INITIATED BY: LABORATORY CLIENT

In reference to data for the following sample number(s):

- 1) will send 15 soil / 1 AS / 1 FB Hold til 5/31 until request for analysis. (for 8080)
- 2) 48 hrs turn around time
- 3) Aldrin / Dieldrin MDL changed to 340/360 (original at 0.5/1 ppb)

Summary of Questions/Issue Discussed:

- 4) PQL can be used up to 25 ppb for all target analytes
- 5) contain high TPH & aldrin / chlordane interference)
- 6) We get work on April with low report DT we can adjust up to 25 ppb

Summary of Resolution:

Carl will call to authorize to run the samples: send on 5/30/96

15 Soils
 1 AS
 1 FB

CP
 Signature

5/29/96
 Date

May 31, 1996

Project: Camp Lejeune - Job No. 18319
 CKY Control No. 96E080

=====

As per instructions of Mr. Carl Pampel, CKY is to dispose the following samples (DO NOT ANALYZE):

96E080-2, 96E080-3, 96E080-4, 96E080-6, 96E080-7

All the rest of the samples should be analyzed withing 48 Hrs.

Client will provide duplicate samples (Ex.: CLJ100-CS-010DP); these samples need to be analyzed individually as a regular sample.

In regards to the shipment to be received today, the following samples with the following suffix should be disposed:

015, 016, 017, 018, 019, 021, 023, 024, 025, 027

All the rest of the samples in this batch to be received should be analyzed within 48 hrs. as well.

There will be two duplicate samples in this coming batch.

SAMPLE RECEIPT FORM

CKY INC., ANALYTICAL LABORATORIES, 630 Maple Ave., Torrance, Calif. 90503 Tel. (310) 618-8889 Fax (310) 618-0818

CONTROL NO.	96E080
CLIENT	OHM
PROJECT	CAMP LEJUNE

DATE	05-30-96
TIME	10:00 AM
RECIPIENT	I. PATEL

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY	ON (DATE)	AT (TIME)	FROM (SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT ✓					
SHIPPED/AIRBILL NO	FEDEX APTN: 6921491286 SEE AIRBILL				

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:			<input checked="" type="checkbox"/> INTACT	DAMAGED	<input checked="" type="checkbox"/> SEALED	NOT SEALED	NO CONTAINER
CONTAINER:	INSIDE TEMPERATURE: 2° C		CUSTODY SEAL		LOCATION		NUMBER
<input checked="" type="checkbox"/> COOLER	PACKAGING	TYPE	SUFFICIENCY	<input checked="" type="checkbox"/> INTACT	DAMAGED	FRONT CLOSURE SIDE	1 1
<input type="checkbox"/> BOX	INSULATION:		OK	NAME: SEE COC			
<input type="checkbox"/> OTHER:	ICE/COOLANT:	REGULAR		DATE:			
	PACKING MATERIAL:	BUBBLE PAK PAPER		TIME:			

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY (COC)	SEALED	<input checked="" type="checkbox"/> ENCLOSED	HANDCARRIED	FAXED	MAILED
---	--------	--	-------------	-------	--------

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY				
SAMPLE CUSTODY SEAL	EVERY SAMPLE	NONE	/				
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK					
SAMPLE AMOUNT	ENOUGH						
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT						
HEADSPACE/BUBBLES	ZERO/NONE						
SAMPLE LABEL INFORMATION	SUFFICIENT						
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT						
SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER
INDIVIDUAL SAMPLE CONTAINER:	NONE	SEALED PLASTIC BAG			CAN	OTHER (SPECIFY): BUBBLE PAK	

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION
/			
/			
/			
/			
/			
/			
/			

CLIENT SERVICES COPY RECEIVED BY	<i>celite 6/3</i>	DATE		TIME	
----------------------------------	-------------------	------	--	------	--

FedEx

USE THIS AIRBILL FOR DANGEROUS GOODS SHIPMENTS ONLY WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIRWAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

6921491286

6921491286

96 E080

5/30/96

RECIPIENT'S COPY

Date
5-29-96

From (Your Name) Please Print
AARON R. GRAN
Your Phone Number (Very Important)
(910) 451-2599
To (Recipient's Name) Please Print
KAM Peng
Recipient's Phone Number (Very Important)
(310) 618-8889

Company
TUN REMEDIATION SERVICES
Department/Floor No.
Company
CKY INC.
Department/Floor No.

Street Address
CAMP LEBRON/ WELCOME BLVD
Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.)
630 Maple Avenue

City
JACKSONVILLE
State
NC
ZIP Required
28542
City
Torrance
State
CA
ZIP Required
90503

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.)
18319
IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations)

PAYMENT
1 Bill Sender
2 Bill Recipient's FedEx Acct. No.
3 Bill 3rd Party FedEx Acct. No.
4 Bill Credit Card
5 Cash/Check

4 SERVICES (Check only one box)
11 Priority Overnight
51 Standard Overnight
30 Economy Two-Day
41 Government Overnight
70 Overnight Freight
80 Two-Day Freight

5 DELIVERY AND SPECIAL HANDLING (Check services required)
1 HOLD AT FEDEX LOCATION WEEKDAY
2 DELIVER WEEKDAY
31 HOLD AT FEDEX LOCATION SATURDAY
3 DELIVER SATURDAY
9 SATURDAY PICK-UP
4 DANGEROUS GOODS
6 DRY ICE
12 HOLIDAY DELIVERY

Table with columns: PACKAGES, WEIGHT, YOUR DECLARED VALUE, Emp. No., Date, Federal Express Use, Base Charges, Declared Value Charge, Other 1, Other 2, Total Charges, REVISION DATE, SIGNATURE RELEASE UNAVAILABLE.

6921491286

Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER AND CARGO AIRCRAFT, CARGO AIRCRAFT ONLY. Airport of Departure, Airport of Destination.

Shipment type: (delete non-applicable) NON-RADIOACTIVE, RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Table with columns: Proper Shipping Name, Class or Division, UN or ID No., Packing Group, Subsidiary Risk, Quantity and type of packing, Packing Inst., Authorization. Includes handwritten entry: Other Regulated substances, class 9, ID 2027, 1 plastic container w/ 15-250 mL glass Jars, 2-1 L glass Jars, 5.75 L Total.

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations.

Name/Title of Signatory
AARON R. GRAN / Receiver / Tech
Place and Date
Signature
(see warning above)

Emergency Telephone Number (Required for US Origin or Destination Shipments)
1-800-491-6710
IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96E080

JUNE 08, 1996

CASE NARRATIVE

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
SDG: 96E080

CHLORINATED PESTICIDES

Fifteen (15) soil and two (2) samples were received on 05/30/96 for Pesticide analysis in accordance with SW846. Samples CLJ100-CS-002, -003, -004, and -007 were canceled and the others were requested for the analysis on 05/31/96.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

Both soil and water method blanks were free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs were within the QC limits for soil matrix. There was no MS/MSD performed for reinstate and field water samples, LCS/LCSD were performed as precision QC.

IV. Lab Control Sample

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. Rtx35 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met the project specific QC requirements.

The LCS and MS/MSD associated with the preliminary soil results were not spiked with

the required DDD, alpha-chlordane, and gamma-chlordane analytes. All samples in 96E080 were re-extracted and re-analyzed with the required analytes spiked in the LCS and MS/MSD. Only reanalysis results were submitted in a final data package.

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-001           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-01                 MATRIX:         SOIL
% MOISTURE:  9.5                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	280	110
Dieldrin	50	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 05/29/96
PROJECT:    18319/CAMP LEJEUNE                 DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                             DATE EXTRACTED: 06/03/96
SAMPLE ID:  CLJ100-CS-005                       DATE ANALYZED:  06/05/96
CONTROL NO.: E080-05                             MATRIX:         SOIL
% MOISTURE: 10.2                               DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.9
alpha-BHC	ND	11.1
beta-BHC	ND	22.3
delta-BHC	ND	27.8
gamma-BHC (Lindane)	ND	18.9
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.3
Endosulfan I	ND	18.9
Endosulfan II	ND	223
Endosulfan Sulfate	ND	22.3
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	223
Heptachlor Epoxide	ND	557
Methoxychlor	ND	1110
Toxaphene	ND	2230
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	99	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E080
SAMPLE ID:   CLJ100-CS-008
CONTROL NO.: E080-08
% MOISTURE:  11.5
DATE COLLECTED: 05/29/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 06/03/96
DATE ANALYZED:  06/05/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.2
alpha-BHC	ND	11.3
beta-BHC	ND	22.6
delta-BHC	ND	28.2
gamma-BHC (Lindane)	ND	19.2
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	ND	113
4,4'-DDE	ND	113
4,4'-DDT	ND	113
Dieldrin	ND	22.6
Endosulfan I	ND	19.2
Endosulfan II	ND	226
Endosulfan Sulfate	ND	22.6
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	226
Heptachlor Epoxide	ND	565
Methoxychlor	ND	1130
Toxaphene	ND	2260
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                  DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-009           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-09                 MATRIX:         SOIL
% MOISTURE:  14.5                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.9
alpha-BHC	ND	11.7
beta-BHC	ND	23.4
delta-BHC	ND	29.2
gamma-BHC (Lindane)	ND	19.9
alpha-Chlordane	100	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	650*	117
4,4'-DDT	280	117
Dieldrin	110	23.4
Endosulfan I	ND	19.9
Endosulfan II	ND	234
Endosulfan Sulfate	ND	23.4
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	234
Heptachlor Epoxide	ND	585
Methoxychlor	ND	1170
Toxaphene	ND	2340
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	94	20-150

RL: Reporting Limit

* : Was diluted at DF 5 and reanalyzed on 06/06/96 due to high concentration level.

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE                DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                            DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-010                     DATE ANALYZED:  06/05/96
CONTROL NO.: E080-10                           MATRIX:         SOIL
% MOISTURE:  17.5                              DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.6
alpha-BHC	ND	12.1
beta-BHC	ND	24.2
delta-BHC	ND	30.3
gamma-BHC (Lindane)	ND	20.6
alpha-Chlordane	ND	121
gamma-Chlordane	ND	121
4,4'-DDD	ND	121
4,4'-DDE	980*	121
4,4'-DDT	1200*	121
Dieldrin	97	24.2
Endosulfan I	ND	20.6
Endosulfan II	ND	242
Endosulfan Sulfate	ND	24.2
Endrin	ND	121
Endrin aldehyde	ND	12.1
Heptachlor	ND	242
Heptachlor Epoxide	ND	606
Methoxychlor	ND	1210
Toxaphene	ND	2420
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	92	20-150

```

=====
RL: Reporting Limit
* : Was diluted at DF 10 and reanalyzed on 06/06/96 due to high
    concentration level.

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EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 05/29/96
PROJECT:    18319/CAMP LEJEUNE                 DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                             DATE EXTRACTED: 06/03/96
SAMPLE ID:  CLJ100-CS-010DP                    DATE ANALYZED:  06/05/96
CONTROL NO.: E080-11                           MATRIX:         SOIL
% MOISTURE: 19.6                               DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	21.1
alpha-BHC	ND	12.4
beta-BHC	ND	24.9
delta-BHC	ND	31.1
gamma-BHC (Lindane)	ND	21.1
alpha-Chlordane	ND	124
gamma-Chlordane	ND	124
4,4'-DDD	ND	124
4,4'-DDE	930*	124
4,4'-DDT	1200*	124
Dieldrin	77	24.9
Endosulfan I	ND	21.1
Endosulfan II	ND	249
Endosulfan Sulfate	ND	24.9
Endrin	ND	124
Endrin aldehyde	ND	12.4
Heptachlor	ND	249
Heptachlor Epoxide	ND	622
Methoxychlor	ND	1240
Toxaphene	ND	2490
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	95	20-150

```

=====
RL:  Reporting Limit
* :  Was diluted at DF 5 and reanalyzed due to high concentration
     level.

```

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E080
SAMPLE ID:   CLJ100-CS-011
CONTROL NO.: E080-12
% MOISTURE:  11.1
DATE COLLECTED: 05/29/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 06/03/96
DATE ANALYZED:  06/05/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.1
alpha-BHC	ND	11.2
beta-BHC	ND	22.5
delta-BHC	ND	28.1
gamma-BHC (Lindane)	ND	19.1
alpha-Chlordane	ND	112
gamma-Chlordane	ND	112
4,4'-DDD	ND	112
4,4'-DDE	ND	112
4,4'-DDT	ND	112
Dieldrin	ND	112
Endosulfan I	ND	22.5
Endosulfan II	ND	19.1
Endosulfan Sulfate	ND	225
Endrin	ND	22.5
Endrin aldehyde	ND	112
Heptachlor	ND	11.2
Heptachlor Epoxide	ND	225
Methoxychlor	ND	562
Toxaphene	ND	1120
		2250
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                               DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE              DATE RECEIVED:  05/31/96
BATCH NO.:   96E080                          DATE EXTRACTED: 06/03/96
SAMPLE ID:   CLJ100-CS-012                   DATE ANALYZED:  06/05/96
CONTROL NO.: E080-13                          MATRIX:         SOIL
% MOISTURE:  NA                               DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	220	100
4,4'-DDT	150	100
Dieldrin	64	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	101	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                   DATE EXTRACTED: 06/03/96
SAMPLE ID:  CLJ100-CS-013            DATE ANALYZED:  06/05/96
CONTROL NO.: E080-14                 MATRIX:         SOIL
% MOISTURE: 14.9                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20
alpha-BHC	ND	11.8
beta-BHC	ND	23.5
delta-BHC	ND	29.4
gamma-BHC (Lindane)	ND	20
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	330	118
4,4'-DDT	180	118
Dieldrin	ND	23.5
Endosulfan I	ND	20
Endosulfan II	ND	235
Endosulfan Sulfate	ND	23.5
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	235
Heptachlor Epoxide	ND	588
Methoxychlor	ND	1180
Toxaphene	ND	2350
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	101	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E080
SAMPLE ID:   CLJ100-CS-014
CONTROL NO.: E080-15
% MOISTURE:  9.5
DATE COLLECTED: 05/29/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 06/03/96
DATE ANALYZED:  06/05/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	150	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	79	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	95	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:   NA
BATCH NO.:   96E080                  DATE EXTRACTED:  06/03/96
SAMPLE ID:   MBLK1S                  DATE ANALYZED:   06/05/96
CONTROL NO.: CPF002SB                MATRIX:          SOIL
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 LOCATION: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 9.5

BATCH NO.: 96E080
 SAMPLE ID: CLJ100-CS-001
 CONTROL NO.: E080-01
 DATE RECEIVED: 05/31/96
 DATE EXTRACTED: 06/03/96
 DATE ANALYZED: 06/05/96
 ACCESSION: 96E080

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	185.00	206.00	111	185.00	206.00	111	0	20-170	50
alpha-Chlordane	ND	185.00	218.00	118	185.00	241.00	131	10	20-170	50
gamma-Chlordane	ND	185.00	200.00	108	185.00	202.00	110	1	20-170	50
4,4'-DDD	ND	368.00	449.00	122	368.00	484.00	132	8	20-170	50
4,4'-DDT	309.00	368.00	441.00	36	368.00	443.00	36	2	20-170	50
Dieldrin	ND	368.00	399.00	108	368.00	404.00	110	1	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	442.00	444.00	100	442.00	456.00	103	20-150
Decachlorobiphenyl	737.00	716.00	97	737.00	717.00	97	20-150

CKY QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
METHOD: EPA 8080
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96E080
SAMPLE ID: LCS1S
CONTROL NO.: CPF002SC
DATE RECEIVED: NA
DATE EXTRACTED: 06/02/96
DATE ANALYZED: 06/05/96
ACCESSION: 96E080

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT (%)
Aldrin	ND	167.00	187.00	112	47-116
alpha-Chlordane	ND	167.00	184.00	110	45-119
gamma-Chlordane	ND	167.00	181.00	108	45-119
4,4'-DDD	ND	333.00	366.00	110	48-136
4,4'-DDT	ND	333.00	362.00	109	34-143
Dieldrin	ND	333.00	308.00	92	42-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	410.00	102	20-150
Decachlorobiphenyl	667.00	635.00	95	20-150

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/29/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:  96E080                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-RB-529           DATE ANALYZED:  06/05/96
CONTROL NO.: E080-16                 MATRIX:         WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	107	30-150
Decachlorobiphenyl	48	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E080
SAMPLE ID:   CLJ100-FB-529
CONTROL NO.: E080-17
% MOISTURE:  NA
DATE COLLECTED: 05/29/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/05/96
MATRIX:        WATER
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	103	30-150
Decachlorobiphenyl	46	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F004
SAMPLE ID:   MBLK1W
CONTROL NO.: CPF003WB
% MOISTURE:  NA
DATE COLLECTED: NA
DATE RECEIVED: NA
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/05/96
MATRIX:      WATER
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
MURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	117	30-150
Decachlorobiphenyl	57	24-154

RL: Reporting Limit

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: WATER
 % MOISTURE: NA

BATCH NO.: 96E080 DATE RECEIVED: NA
 SAMPLE ID: LCS1W/LCS1WD DATE EXTRACTED: 06/04/96
 CONTROL NO.: CPF003WL/C DATE ANALYZED: 06/05/96

ACCESSION: 96F004 96E080

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,4'-DDD	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,4'-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	30-150
Decachlorobiphenyl	2.00	1.70	85	2.00	1.75	88	24-154

INITIAL CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 Column : Rtx-35
 Column size ID: .53mm
 LFID & Datime: TE24-19 05-24-96 21:54:58
 LFID & Datime: TE24-21 05-24-96 23:08:24
 LFID & Datime: TE24-23 05-25-96 00:21:50
 LFID & Datime: TE24-25 05-25-96 01:35:14
 LFID & Datime: TE24-27 05-25-96 02:48:44
 CONC UNIT: ppb

TE24-20 05-24-96 22:31:41
 TE24-22 05-24-96 23:45:08
 TE24-24 05-25-96 00:58:31
 TE24-26 05-25-96 02:11:59
 TE24-28 05-25-96 03:25:29

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16138	17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
dieldrin	10.0	17776	18480	17738	16977	15492	17293	7
DDE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12298	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11430	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16608	15132	13136	11773	15132	19

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF04-22 06-04-96 23:48:37 TF04-23 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.6	8
gamma-BHC	20.0	19075	21.4	7
beta-BHC	20.0	7454	21.7	9
Heptachlor	20.0	17057	22.4	12
delta-BHC	20.0	14510	22.1	11
Aldrin	20.0	17944	20.5	2
Heptachlor Epoxide	20.0	17354	19.9	1
gamma-Chlordane	20.0	18498	20.0	0
Endosulfan I	20.0	17474	19.7	1
alpha-Chlordane	20.0	17987	20.0	0
Dieldrin	40.0	17293	39.2	2
DDE	40.0	14912	42.7	7
Endrin	40.0	13865	42.4	6
Endosulfan II	40.0	14787	39.5	1
Endrin	40.0	11923	43.2	8
Endrin Aldehyde	40.0	12267	39.8	0
DDT	40.0	12385	43.8	10
Endosulfan Sulfate	40.0	14142	38.7	3
Endrin Ketone	40.0	15832	39.1	2
Methoxychlor	200.0	4708	228.0	14
TCX	20.0	14832	20.9	5
DCB	40.0	15132	37.3	7

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF04-41 06-05-96 11:27:08 TF04-42 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.4	7
gamma-BHC	20.0	19075	21.2	6
beta-BHC	20.0	7454	21.4	7
Heptachlor	20.0	17057	21.0	5
delta-BHC	20.0	14510	21.6	8
Aldrin	20.0	17944	19.4	3
Heptachlor Epoxide	20.0	17354	18.6	7
gamma-Chlordane	20.0	18498	18.8	6
Endosulfan I	20.0	17474	22.8	14
alpha-Chlordane	20.0	17987	18.9	6
Dieldrin	40.0	17293	39.1	2
DDE	40.0	14912	40.3	1
Endrin	40.0	13865	42.0	5
Endosulfan II	40.0	14787	37.2	7
)	40.0	11923	42.3	6
Aldrin Aldehyde	40.0	12267	37.3	7
DDT	40.0	12385	41.4	4
Endosulfan Sulfate	40.0	14142	36.6	9
Endrin Ketone	40.0	15832	36.8	8
Methoxychlor	200.0	4708	211.2	6
TCX	20.0	14832	19.9	0
DCB	40.0	15132	35.7	11

CONTINUE CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID : .53mm
 Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
 Mid Con Cont LFID & Datime: TF04-60 06-05-96 23:49:55 TF04-61 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.7	8
gamma-BHC	20.0	19075	21.4	7
beta-BHC	20.0	7454	22.5	13
Heptachlor	20.0	17057	20.9	4
delta-BHC	20.0	14510	22.9	14
Aldrin	20.0	17944	20.1	0
Heptachlor Epoxide	20.0	17354	19.3	3
gamma-Chlordane	20.0	18498	19.5	3
Endosulfan I	20.0	17474	19.6	2
alpha-Chlordane	20.0	17987	19.5	3
Dieldrin	40.0	17293	39.1	2
DDE	40.0	14912	41.8	4
Endrin	40.0	13865	42.0	5
Endosulfan II	40.0	14787	38.5	4
)	40.0	11923	42.4	6
Aldrin Aldehyde	40.0	12267	38.3	4
DDT	40.0	12385	40.3	1
Endosulfan Sulfate	40.0	14142	37.9	5
Endrin Ketone	40.0	15832	37.7	6
Methoxychlor	200.0	4708	206.1	3
TCX	20.0	14832	20.5	3
DCB	40.0	15132	35.9	10

CONTINUE CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID : .53mm
 Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
 Mid Con Cont LFID & Datime: TF04-79 06-06-96 11:26:47 TF04-80 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.2	6
gamma-BHC	20.0	19075	21.1	6
beta-BHC	20.0	7454	22.8	14
Heptachlor	20.0	17057	21.8	9
delta-BHC	20.0	14510	21.5	8
Aldrin	20.0	17944	20.2	1
Heptachlor Epoxide	20.0	17354	19.6	2
gamma-Chlordane	20.0	18498	19.8	1
Endosulfan I	20.0	17474	19.5	2
alpha-Chlordane	20.0	17987	19.8	1
Dieldrin	40.0	17293	38.7	3
DDP	40.0	14912	42.2	6
rin	40.0	13865	41.7	4
Endosulfan II	40.0	14787	39.2	2
DDD	40.0	11923	42.5	6
Endrin Aldehyde	40.0	12267	38.9	3
DDT	40.0	12385	42.9	7
Endosulfan Sulfate	40.0	14142	38.6	4
Endrin Ketone	40.0	15832	38.1	5
Methoxychlor	200.0	4708	219.1	10
TCX	20.0	14832	20.9	4
DCB	40.0	15132	34.8	13

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF04-2	File: TF04-2
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	0.4	0
Endrin	2.1	1.2

	File: SF04-21	File: TF04-21
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	1.8	0
Endrin	0.9	0

	File: SF04-40	File: TF04-40
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	1.3	0
Endrin	2.1	0

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF04-59	File: TF04-59
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	8.2	0
Endrin	6.7	0

	File: SF04-78	File: TF04-78
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	7.5	0
Endrin	2.4	0.9

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

SEQUENCE RECORDED IN F:\SF04.SEQ

SEQUENCE FILE: F:\SF04.SEQ

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
2 PEM01/10-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
3 DCC1-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
4 DCC1-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
5 CPF004SQ	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
6 CPF004SZ	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
7 CPF004SZ	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
8 96F004-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
9 96F004-02	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
10 96F004-03	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
11 96F004-04	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
12 96F004-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
13 96F004-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
14 96F004-07	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
15 96F004-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
16 96F004-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
17 96F004-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
18 96F004-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
19 96F004-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
20 96F004-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
21 PEM02/10-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
22 DCC2-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
23 DCC2-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
24 96F004-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
25 96F004-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
26 96F004-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
27 96F004-18	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
28 96F004-12H	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
29 96F004-12S	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
30 CPF003WB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
31 CPF003WL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
32 CPF003WC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
33 96E080-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
34 96E080-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
35 96F004-19	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
36 96F004-20	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
37 96F004-06T 10X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
38 CPF002SB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
39 SPIKE TEST	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
40 PEM03/10-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
41 DCC3-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
42 DCC3-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
43 96F002SL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
44 96F002SC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
45 96E080-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
46 96E080-01H	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
47 96E080-01S	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000

48	96E080-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
49	96E080-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
50	96E080-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
51	96E080-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
52	96E080-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
53	96E080-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
54	96E080-11T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
55	96E080-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
56	96E080-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
57	96E080-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
58	96E080-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
59	PEM04/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
60	DCC4-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
61	DCC4-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
62	DCC1-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
63	96E080-09T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
64	96E080-10T 10X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
65	CPF006SB	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
66	CPF006SL	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
67	CPF006SC	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
68	96F013-12	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
69	96F013-12M	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
70	96F013-12S	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
71	CPF007SB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
72	CPF007SL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
73	CPF007SC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
74	96F009-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
75	96F009-01M	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
76	96F009-01S	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
77	96F009-02	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
78	PEM05/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
79	DCC5-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
80	DCC5-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
81	DCC2-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
82	96F009-03	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
83	96F009-04	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
84	96F009-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
85	96F009-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
86	96F009-07	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
87	96F009-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
88	96F009-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
89	96F009-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
90	96F009-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
91	96F009-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
92	96F009-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
93	96F009-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
94	96F009-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
95	96F009-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
96	96F009-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
97	96F009-18	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
98	PEM06/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
99	DCC6-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
100	DCC6-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT OTIM
MATRIX SOIL

METHOD 8080 PAGE # 95
DATE EXTRACTED 6/03/96 DATE COMPLETED 6/03/96

LAB SAMPLER ID	SAMPLER AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/ML)	NOTES
CPF002 SQ			10		
SZ					
SZ					
E080 - 01	3.0				
1M					
1S					
05					
06					
08					
09					
10					
11					
12					
13					
14					
15					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISH	F

REAGENT	LOT #
Na2SO4	954496
CH2CL2	36082
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID MIX A	S10C-01-0-34-02	0.40
SURROGATE ID	S10C-01-0-25-02	2.0
MIX B spike	S10C-01-0-35-01	0.40

SID #	EXTRACT LOCATION
	GC-R1-C1

COMMENTS: time started: 17:00
time completed: 21:00

PREPARED BY: ML / MD / FY
STD'S ADDED BY: MD / ML
CHECKED BY: _____

Extracts Received By: 6/4/96

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CKY Analytical Laboratories
 Sample Preparation Department
EXTRACTION LOG FOR PESTICIDES/PCBs
CKYT-E01-002

CLIENT
 MATRIX

OHM
WATER

METHOD
 DATE EXTRACTED

6080
6/02/96-16:00

PAGE #

92

DATE COMPLETED 6/03/96 16:00

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/AF)	NOTES
CPFO03 - WB	1000		10		
WL	↓		↓		
NC					
E080 - 16					
17					
F004 - 19					
20					
—————					

30

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2CL2	MD 954496 36082
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID	S10C-01-22-02	1.0
SURROGATE ID	S10C-1-23-2	1.0

SDG #	EXTRACT LOCATION
	GC-R1-0J

COMMENTS: _____

PREPARED BY: VMD
 STD'S ADDED BY: MD / TOM
 CHECKED BY: ML

Extracts Received By: _____



CKY incorporated Analytical Laboratories

Date: 06-05-1996
CKY Batch No.: 96E081

Ms. Missy Art

OHM
5335 TRIANGLE PARKWAY SUITE 450
NORCROSS GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 05/31/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-020	E081-06	Soil	EPA 8080
CLJ100-CS-020DP	E081-07	Soil	EPA 8080
CLJ100-CS-022	E081-09	Soil	EPA 8080
CLJ100-CS-026	E081-13	Soil	EPA 8080
CLJ100-CS-028	E081-15	Soil	EPA 8080
CLJ100-CS-029	E081-16	Soil	EPA 8080
CLJ100-CS-030	E081-17	Soil	EPA 8080
CLJ100-CS-030DP	E081-18	Soil	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Pang

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CASE NARRATIVE

CLIENT: OHM
PROJECT: CAMP LEJEUNE
SDG: 96E081

PESTICIDES

Eighteen (18) soil and two (1) oil samples were received on 05/31/96 for Pesticides and PCBs analysis in accordance with USEPA SW 846. Only eight (8) samples were authorized for analysis.

I. Holding Time

All samples were analyzed within holding time criteria.

II. Blank

A method blank was free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs were within QC limits.

IV. Lab Control Sample

All lab control results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

Initial calibrations were five-point for Pesticides, all RSDs were within the QC limits. Rtx-35 was used as a quantitation column.

VII. Sample Analysis

Sample analysis was done within QC requirements.



EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-020          DATE ANALYZED:  05/31/96
CONTROL NO.: E081-06                MATRIX:         SOIL
% MOISTURE:  13.2                   DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23
delta-BHC	ND	28.8
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	ND	115
4,4'-DDT	ND	115
Dieldrin	30	23
Endosulfan I	ND	19.6
Endosulfan II	ND	230
Endosulfan Sulfate	ND	23
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	230
Heptachlor Epoxide	ND	576
Methoxychlor	ND	1150
Toxaphene	ND	2300
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	113	20-150
Decachlorobiphenyl	78	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96E081
SAMPLE ID:   CLJ100-CS-020DP
CONTROL NO.: E081-07
% MOISTURE:  13.6
DATE COLLECTED: 05/30/96
DATE RECEIVED:  05/31/96
DATE EXTRACTED: 05/31/96
DATE ANALYZED:  05/31/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	120	116
4,4'-DDT	ND	116
Dieldrin	86	23.1
Endosulfan I	ND	19.7
Endosulfan II	ND	231
Endosulfan Sulfate	ND	23.1
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	231
Heptachlor Epoxide	ND	579
Methoxychlor	ND	1160
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	72	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-022           DATE ANALYZED:  06/01/96
CONTROL NO.: E081-09                MATRIX:         SOIL
% MOISTURE:  11.7                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.3
beta-BHC	ND	22.7
delta-BHC	ND	28.3
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	ND	113
4,4'-DDE	ND	113
4,4'-DDT	ND	113
Dieldrin	110	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	227
Heptachlor Epoxide	ND	566
Methoxychlor	ND	1130
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	106	20-150
Decachlorobiphenyl	74	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-026          DATE ANALYZED:  06/01/96
CONTROL NO.: E081-13                MATRIX:         SOIL
% MOISTURE:  8.9                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.7
alpha-BHC	ND	11
beta-BHC	ND	22
delta-BHC	ND	27.4
gamma-BHC (Lindane)	ND	18.7
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	330*	110
4,4'-DDE	350*	110
4,4'-DDT	610*	110
Dieldrin	110	22
Endosulfan I	ND	18.7
Endosulfan II	ND	220
Endosulfan Sulfate	ND	22
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	220
Heptachlor Epoxide	ND	549
Methoxychlor	ND	1100
Toxaphene	ND	2200
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	110	20-150
Decachlorobiphenyl	75	20-150

RL: Reporting Limit

* : Was diluted at DF 5 and reanalyzed on 06/02/96 due to high concentration level.

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-028           DATE ANALYZED:  06/01/96
CONTROL NO.: E081-15                 MATRIX:         SOIL
% MOISTURE:  7.5                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	230	108
4,4'-DDT	300	108
Dieldrin	250	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER		

Tetrachloro-m-xylene	113	20-150
Decachlorobiphenyl	73	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  05/31/96
BATCH NO.:  96E081                    DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-029            DATE ANALYZED:  06/01/96
CONTROL NO.: E081-16                  MATRIX:         SOIL
% MOISTURE:  12.2                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	1300*	114
4,4'-DDE	1600*	114
4,4'-DDT	ND	114
Dieldrin	310	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	569
Methoxychlor	ND	1140
Toxaphene	ND	2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	68	20-150

RL: Reporting Limit

* : Was diluted at DF 10 and reanalyzed on 06/02/96 due to high concentration level.

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:   96E081                  DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-030           DATE ANALYZED:  06/01/96
CONTROL NO.: E081-17                 MATRIX:         SOIL
% MOISTURE:  7.6                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	68	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/30/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  05/31/96
BATCH NO.:  96E081                   DATE EXTRACTED: 05/31/96
SAMPLE ID:   CLJ100-CS-030DP         DATE ANALYZED:  06/01/96
CONTROL NO.: E081-18                 MATRIX:         SOIL
% MOISTURE:  6.9                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	537
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	70	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:   NA
BATCH NO.:   96E081                  DATE EXTRACTED:  05/31/96
SAMPLE ID:   MBLK1S                  DATE ANALYZED:   05/31/96
CONTROL NO.: CPE017SB                MATRIX:          SOIL
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	103	20-150
Decachlorobiphenyl	74	20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96E081
 SAMPLE ID: LCS1S
 CONTROL NO.: CPE017SL
 DATE RECEIVED: NA
 DATE EXTRACTED: 05/31/96
 DATE ANALYZED: 05/31/96
 ACCESSION: 96E081

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT (%)
Aldrin	ND	167.00	172.00	103	47-116
alpha-Chlordane	ND	167.00	188.00	113	45-119
gamma-Chlordane	ND	167.00	171.00	103	45-119
4,4'-DDD	ND	333.00	376.00	113	48-136
4,4'-DDT	ND	333.00	366.00	110	34-143
Dieldrin	ND	333.00	335.00	101	41-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	411.40	103	28-137
Decachlorobiphenyl	667.00	623.00	93	51-153

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 CITY: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 11.7

BATCH NO.: 96E081
 SAMPLE ID: CLJ100-CS-022
 CONTROL NO.: E081-09

DATE RECEIVED: 05/31/96
 DATE EXTRACTED: 05/31/96
 DATE ANALYZED: 06/01/96

ACCESSION: 96E081

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	189.00	200.00	106	189.00	221.00	117	10	20-170	50
alpha-Chlordane	ND	189.00	239.00	127	189.00	263.00	139	10	20-170	50
gamma-Chlordane	ND	189.00	233.00	123	189.00	251.00	133	8	20-170	50
4,4'-DDD	ND	377.00	462.00	122	377.00	463.00	123	0	20-170	50
4,4'-DDT	ND	377.00	476.00	126	377.00	476.00	126	0	20-170	50
Dieldrin	108.00	377.00	472.00	97	377.00	484.00	100	3	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	453.00	449.00	99	453.00	474.00	105	28-137
Decachlorobiphenyl	755.00	728.00	96	755.00	752.00	100	51-153

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

CKY INC./OHM
SOIL

METHOD

8080

PAGE #

89

DATE EXTRACTED

5/31/96

DATE COMPLETED

5/31/96

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/A/P)	NOTES
CPE017-SB	-		10		
SL	-				
E082-01	30.0				
IM	↓				
IS	↓				
E081-01	3.0				
-02					
-03					
-04					
-05					
-06					
-07					
-08					
-09					
-9M					
-9S					
-10					
-11					
-12					
-13					
-14					
-15					
-16					
-17					
-18	↓		↓		

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	35289611
CH2CL2	36082
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID MIX A	S10C-01-24-02	0.25
SURROGATE ID	S10C-1-23-2	2.0
SPIKE MIX B	S10C-1-25-01	0.40

SDG #	EXTRACT LOCATION
	GC-R1-C1

COMMENTS:

PREPARED BY:

MD/ML

STD'S ADDED BY:

MD/ML

CHECKED BY:

FY

Extracts Received By:

CHAIN-OF-CUSTODY RECORD

166573

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS	
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.					<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">TCL Pesticides (80%)</div>											
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR																	
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB													SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
Camp Lejeune		Camp Lejeune, NC.				1-8oz	<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">TCL Pesticides (80%)</div>										1-2°C	
18319	Alan Whitt	(910) 451-2599																
VANN Marshburn		Jim Davis / Alan Whitt																
1	CS100-CS-015	5/30/96	1328		X													Confirmation Sample from AOC 33-38 Base
2	CS100-CS-016	5/30/96	1333		X													Confirmation Sample from AOC 33-38 Base
3	CS100-CS-017	5/30/96	1335		X													Confirmation Sample from AOC 33-38 Base
4	CS100-CS-018	5/30/96	1341		X													Confirmation Sample from AOC 33-38 Sidewall
5	CS100-CS-019	5/30/96	1346		X													Confirmation Sample from AOC 33-38 Sidewall
6	CS100-CS-020	5/30/96	1353		X													Confirmation Sample from AOC 33-38 Sidewall
7	CS100-CS-020P	5/30/96	1353		X													Duplicate Confirmation Sample from AOC 33-38 Sidewall
8	CS100-CS-021	5/30/96	1358		X	Confirmation Sample from AOC 33-38 Sidewall												
9	CS100-CS-022	5/30/96	1403		X	Confirmation Sample from AOC 33-38 Sidewall												
10	CS100-CS-023	5/30/96	1408		X	Confirmation Sample from AOC 33-38 Sidewall												

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Arnon R. Aron	FEDEX 6921491290	5/30/96	1700	Samples sent to CKY Inc. 48 hour TAT. Please Fax Results To (910) 451-1809. Thanks. Hold Samples until we contact you.
2			Korralle	5/31/96	900	
3						
4						

SAMPLER'S SIGNATURE: Arnon R. Aron



CHAIN-OF-CUSTODY RECORD

96E081/D2

TRANSFERS
Form 0019
Field Technical Services
Rev. 08/89

166574

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526										
PROJECT NAME				PROJECT LOCATION				NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
PROJ. NO.		PROJECT CONTACT		PROJECT TELEPHONE NO.		TCL Pesticides (40280)			REMARKS	
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR								
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				
1	CL5100-CS-024	5/30/96	1412		X	Confirmation Sample from AOC 39-42 Base		1-807	X	NEESA Level C
2	CL5100-CS-025	5/30/96	1414		X	Confirmation Sample from AOC 39-42 Sidewall		1-807	X	
3	CL5100-CS-026	5/30/96	1417		X	Confirmation Sample from AOC 29-28 Base		1-807	X	
4	CL5100-CS-027	5/30/96	1420		X	Confirmation Sample from AOC 29-28 Sidewall		1-807	X	
5	CL5100-CS-028	5/30/96	1423		X	Confirmation Sample from AOC 29-32 Sidewall		1-807	X	
6	CL5100-CS-029	5/30/96	1426		X	Confirmation Sample from AOC 29-32 Side wall		1-807	X	
7	CL5100-CS-030	5/30/96	1430		X	Confirmation Sample from AOC 29-32 Base		1-807	X	
8	CL5100-CS-030 DP	5/30/96	1430		X	Duplicate Confirmation Sample from AOC 29-32 Base		1-807	X	
9	CL5100-FB-530	5/30/96	1437		X	Field Blank		1-1L	X	Do Not Run!
10	CL5100-RB-530	5/30/96	1441		X	Rinseate Blank		1-1L	X	Do NOT Run!
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS		
1	1-10	Doreen R. Aron		FED-EX 6921491290		5/30/96	700	Samples sent to CKY Inc. 48 hour T.A.T. Please fax results to (910) 451-1207. Thanks		
2				Lambert		5/31/96	700	Hold Samples until we contact you.		
3								SAMPLER'S SIGNATURE		
4								Doreen R. Aron		

SAMPLE RECEIPT FORM

CKY INC., ANALYTICAL LABORATORIES, 630 Maple Ave., Torrance, Calif. 90503 Tel. (310) 618-8889 Fax. (310) 618-0818

CONTROL NO.	96E081
CLIENT	OHM
PROJECT	Camp Lejeune

DATE	05 - 31 - 96
TIME	900
RECIPIENT	Tom Vu

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY:	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT	✓				
SHIPPED/AIRBILL NO.	Fedex, APTN: 6921491290	See Air Bill			

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:	✓ INTACT	DAMAGED	✓ SEALED	NOT SEALED	NO CONTAINER	
CONTAINER:	INSIDE TEMPERATURE: 2° C		CUSTODY SEAL		LOCATION	NUMBER
✓ COOLER	PACKAGING	TYPE	SUFFICIENCY	✓ INTACT	DAMAGED	
BOX	INSULATION:		OK	NAME:		Front Closure 2
OTHER:	ICE/COOLANT:	Regular	↓	DATE:		
	PACKING MATERIAL:	Popcorn		TIME:		

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	SEALED	✓ ENCLOSED	HANDCARRIED	FAXED	MAILED
--	--------	------------	-------------	-------	--------

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY
SAMPLE CUSTODY SEAL	EVERY SAMPLE	None	
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK	
SAMPLE AMOUNT	ENOUGH		
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT		
HEADSPACE/BUBBLES	ZERO/NONE		
SAMPLE LABEL INFORMATION	SUFFICIENT		
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT		
SAMPLE INFO.:	SAMPLE ID ✓	DATE ✓	TIME ✓
INDIVIDUAL SAMPLE CONTAINER:	NONE	✓ SEALED PLASTIC BAG	SIGNATURE ✓
		ANALYSES ✓	PRESERVATIVE ✓
		CAN	CONTAINER ✓
		✓ OTHER(SPECIFY):	Bubble Wrap

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION
CLIENT SERVICES COPY RECEIVED BY	oertwa 5/31	DATE	TIME



USE THIS AIRBILL FOR DANGEROUS GOODS SHIPMENTS ONLY WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
 USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
 QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER

6921491290

6921491290

46E081

SENDER'S FEDERAL EXPRESS ACCOUNT NUMBER: 6774-6871-1 Date: 5-30-91
FEDEX REGULATORY COPY
 RETAIN FOR 1 YEAR

From (Your Name) Please Print: AARON R GRAN Your Phone Number (Very Important): (910) 451-7599 To (Recipient's Name) Please Print: KAM PANG Recipient's Phone Number: (310) 419-8...

Company: AARON R GRAN Department/Floor No.: Company: KAM PANG Department/Floor No.:

Street Address: REMEDIATION SERVICES Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): CKY INC

City: CAMP LEJEUNE/ HOLCOMB BLVD State: ZIP Required: City: 630 maple Avenue State: ZIP Required:

City: WASHINGTON NC 28403 State: ZIP Required: City: TUCULO CA 90253

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 19319 IF HELD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations):

Street Address: City: State: ZIP Required:

PAYMENT: Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card Cash/Check Account/Credit Card No. Exp. Date:

SERVICES (Check only one box)

Priority Overnight (Delivery by next business morning): 11 Standard Overnight (Delivery by next business afternoon, No Saturday Delivery): 51

Economy, Two-Day (Delivery by second business day): 30 Government Overnight (Delivery for authorized users only): 41

Freight Service (for packages over 150 lbs.): 70 OVERNIGHT FREIGHT** 80 TWO-DAY FREIGHT**

INSTRUCTIONS (Mark appropriate boxes):
 Dangerous Goods as per attached Shipper's Declaration
 Dangerous Goods Shipper's Declaration not required
 Cargo Aircraft only

DELIVERY AND SPECIAL HANDLING (Check services required)

Weekday Service: 1 HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H) 2 DELIVER WEEKDAY

Saturday Service: 31 HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 3 DELIVER SATURDAY (Extra charge) (Not available to all locations)

9 SATURDAY PICK-UP (Extra charge) (Not available to all locations)

Special Handling: 4 DANGEROUS GOODS (Extra charge) 6 DRY ICE (Dangerous Goods Shipper's Declaration not required)

Dry Ice: 9 UN 280 II X kg 504

12 HOLIDAY DELIVERY (if offered) (Extra charge)

PACKAGES WEIGHT in Pounds Only YOUR DECLARED VALUE (See note)

1 54

Total: Total: Total:

1 54

DIM SHIPMENT (Chargeable Weight) L x W x H

1 Regular Stop 3 Drop Box 4 B.S.C. 2 On-Car/Stop 5 Station

SERVICE CONDITIONS, DECLARED VALUE AND LIMIT OF LIABILITY

Use of this airbill constitutes your agreement to the service conditions in our current Service Guide, available upon request. See back of sender's copy of this airbill for information. Service conditions may vary for Government Overnight Service. See U.S. Government Service Guide for details. We will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, and document your actual loss for a future claim. Limitations found in the current Federal Express Service Guide apply. Your right to recover from Federal Express for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the declared value specified to the left. Recovery cannot exceed actual documented loss. In the event of untimely delivery, Federal Express will at your request and with some limitations return all transportation charges paid. See Service Guide for further information.

Federal Express Use

Base Charges

Declared Value Charge

Other 1

Other 2

Total Charges

REVISION DATE 11/94 Part # 146187/146188 FORMAT #219 GBFE

219

SIGNATURE RELEASE UNAVAILABLE

6921491290

Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non-applicable)
 PASSENGER AND CARGO AIRCRAFT CARGO AIRCRAFT ONLY
 Airport of Departure: Airport of Destination:

Shipment type: (delete non-applicable)
 NON-RADIOACTIVE RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification					Quantity and type of packing	Packing Inst.	Authorization
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk			
Other Regulated Substances	Class 9	ID 803		n/a	1 plastic container w/ 15 - 250 mL glass Jars 2 - 1 L glass Jars 6.5 L Total	906	

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations.

Name/Title of Signatory: Aaron R. GRAN
 Place and Date: TUCULO, CA 5/30/91
 Signature: [Signature]

Emergency Telephone Number (Required for US Origin or Destination Shipments): 1-800-238-6210

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

DATE: June 7, 1996
TO: Missy Art
FROM: W. Tu Nisamaneepong *W. Tu*
SUBJECT: Project Camp Lejeune SDG#96004 and SDG# 96E081

Enclosed please find resubmittal and missing report for SDG# 96E081 and SDG 96F004 itemized as follows.

Item# 1: SDG# 96F004 Resubmittal of revised LCS and MS/MSD report

QC limit ranges of surrogate recoveries in the LCS and MS/MSD were incorrect due to transcript errors. Two copies of revised LCS and MS/MSD reports page# 20, 21, and 25 are enclosed.

Item# 2 SDG# 96E081 Resubmittal revised LCS and MS/MSD report and missing calibration summary

QC limit ranges of surrogate recoveries in the LCS and MS/MSD were incorrect due to transcript errors. Two copies of revised LCS and MS/MSD reports are enclosed. Two copies of missing initial calibration table and daily calibration check summary are also enclosed.

We are sorry for any inconvenience that may have caused you on data review. Please call me at (310) 618-8889 if you have any questions. Thank you.

MEMO Date: 66/08/96

Resubmittal Item # 1

COC # 96FCO4

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
ADDRESS: 18319/CAMP LEJEUNE
CITY: EPA 8080
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96F004
SAMPLE ID: CLJ100-CS-041
CONTROL NO.: F004-12
ACCESSION: 96F004

DATE RECEIVED: 06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED: 06/05/96

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	187.00	112	167.00	195.00	117	4	20-170	50
alpha-Chlordane	ND	167.00	208.00	125	167.00	204.00	122	2	20-170	50
gamma-Chlordane	ND	167.00	179.00	107	167.00	189.00	113	5	20-170	50
4,4'-DDD	ND	333.00	333.00	100	333.00	400.00	120	18	20-170	50
4,4'-DDT	ND	333.00	349.00	105	333.00	415.00	125	17	20-170	50
Dieldrin	ND	333.00	285.00	86	333.00	330.00	99	15	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	383.00	96	400.00	416.00	104	20-150
Decachlorobiphenyl	667.00	619.00	93	667.00	659.00	99	20-150

REVISED REPORT
20 June 96

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 PF : 18319/CAMP LEJEUNE
 ME EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96F004 DATE RECEIVED: NA
 SAMPLE ID: LCS1S/LCS1SD DATE EXTRACTED: 06/04/96
 CONTROL NO.: CPF004SL/C DATE ANALYZED: 06/04/96
 ACCESSION: 96F004

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	177.00	106	167.00	178.00	107	1	47-116	75
alpha-Chlordane	ND	167.00	182.00	109	167.00	198.00	119	8	45-119	75
gamma-Chlordane	ND	167.00	174.00	104	167.00	176.00	105	1	45-119	75
4,4'-DDD	ND	333.00	364.00	109	333.00	360.00	108	1	48-136	75
4,4'-DDT	ND	333.00	386.00	116	333.00	378.00	114	2	34-143	75
Dieldrin	ND	333.00	312.00	94	333.00	307.00	92	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	405.00	101	400.00	397.00	99	20-150
Decachlorobiphenyl	667.00	608.00	91	667.00	612.00	92	20-150

REVISED REPORT

21 6-7-96

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 F: 18319/CAMP LEJEUNE
 M: EPA 8080
 MATRIX: WATER
 % MOISTURE: NA

BATCH NO.: 96F004
 SAMPLE ID: LCS1W/LCS1WD
 CONTROL NO.: CPF003WL/C

DATE RECEIVED: NA
 DATE EXTRACTED: 06/04/96
 DATE ANALYZED: 06/05/96

ACCESSION: 96F004

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,4'-DDD	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,4'-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	30-150
Decachlorobiphenyl	2.00	1.70	85	2.00	1.75	88	24-154

REVISED REPORT

25 E. J. 06

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
METHOD: EPA 8080
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96F004
SAMPLE ID: CLJ100-CS-041
CONTROL NO.: F004-12

DATE RECEIVED: 06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED: 06/05/96

ACCESSION: 96F004

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	187.00	112	167.00	195.00	117	4	20-170	50
alpha-Chlordane	ND	167.00	208.00	125	167.00	204.00	122	2	20-170	50
gamma-Chlordane	ND	167.00	179.00	107	167.00	189.00	113	5	20-170	50
4,4'-DDD	ND	333.00	333.00	100	333.00	400.00	120	18	20-170	50
4,4'-DDT	ND	333.00	349.00	105	333.00	415.00	125	17	20-170	50
Dieldrin	ND	333.00	285.00	86	333.00	330.00	99	15	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	383.00	96	400.00	416.00	104	20-150
Decachlorobiphenyl	667.00	619.00	93	667.00	659.00	99	20-150

REVISED REPORT
20 June 96

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96F004
 SAMPLE ID: LCS1S/LCS1SD
 CONTROL NO.: CPF004SL/C

DATE RECEIVED: NA
 DATE EXTRACTED: 06/04/96
 DATE ANALYZED: 06/04/96

ACCESSION: 96F004

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	177.00	106	167.00	178.00	107	1	47-116	75
alpha-Chlordane	ND	167.00	182.00	109	167.00	198.00	119	8	45-119	75
gamma-Chlordane	ND	167.00	174.00	104	167.00	176.00	105	1	45-119	75
4,4'-DDD	ND	333.00	364.00	109	333.00	360.00	108	1	48-136	75
4,4'-DDT	ND	333.00	386.00	116	333.00	378.00	114	2	34-143	75
Dieldrin	ND	333.00	312.00	94	333.00	307.00	92	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	405.00	101	400.00	397.00	99	20-150
Decachlorobiphenyl	667.00	608.00	91	667.00	612.00	92	20-150

REVISED REPORT

21 June 96

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

C: OHM
F: 18319/CAMP LEJEUNE
METHOD: EPA 8080
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 96F004
SAMPLE ID: LCS1W/LCS1WD
CONTROL NO.: CPF003WL/C

DATE RECEIVED: NA
DATE EXTRACTED: 06/04/96
DATE ANALYZED: 06/05/96

ACCESSION: 96F004

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,4'-DDD	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,4'-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	30-150
Decachlorobiphenyl	2.00	1.70	85	2.00	1.75	88	24-154

REVISED REPORT

25 E. J. 96

MEMO Date: 06/08/96

Resubmittal Item # 2

COC # 96E081

CKY QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 ADDRESS: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96E081
 SAMPLE ID: LCS1S
 CONTROL NO.: CPE017SL
 DATE RECEIVED: NA
 DATE EXTRACTED: 05/31/96
 DATE ANALYZED: 05/31/96
 ACCESSION: 96E081

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT (%)
Aldrin	ND	167.00	172.00	103	47-116
alpha-Chlordane	ND	167.00	188.00	113	45-119
gamma-Chlordane	ND	167.00	171.00	103	45-119
4,4'-DDD	ND	333.00	376.00	113	48-136
4,4'-DDT	ND	333.00	366.00	110	34-143
Dieldrin	ND	333.00	335.00	101	41-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	411.40	103	20-150
Decachlorobiphenyl	667.00	623.00	93	20-150

REVISED REPORT

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 F T: 18319/CAMP LEJEUNE
 M: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 11.7

BATCH NO.: 96E081
 SAMPLE ID: CLJ100-CS-022
 CONTROL NO.: E081-09

DATE RECEIVED: 05/31/96
 DATE EXTRACTED: 05/31/96
 DATE ANALYZED: 06/01/96

ACCESSION: 96E081

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	189.00	200.00	106	189.00	221.00	117	10	20-170	50
alpha-Chlordane	ND	189.00	239.00	127	189.00	263.00	139	10	20-170	50
gamma-Chlordane	ND	189.00	233.00	123	189.00	251.00	133	8	20-170	50
4,4'-DDD	ND	377.00	462.00	122	377.00	463.00	123	0	20-170	50
4,4'-DDT	ND	377.00	476.00	126	377.00	476.00	126	0	20-170	50
Dieldrin	108.00	377.00	472.00	97	377.00	484.00	100	3	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	453.00	449.00	99	453.00	474.00	105	20-150
Decachlorobiphenyl	755.00	728.00	96	755.00	752.00	100	20-150

REVISED REPORT
[Signature] 6.1.96



CKY QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96E081 DATE RECEIVED: NA
 SAMPLE ID: LCS1S DATE EXTRACTED: 05/31/96
 CONTROL NO.: CPE017SL DATE ANALYZED: 05/31/96

ACCESSION: 96E081

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT (%)
Aldrin	ND	167.00	172.00	103	47-116
alpha-Chlordane	ND	167.00	188.00	113	45-119
gamma-Chlordane	ND	167.00	171.00	103	45-119
4,4'-DDD	ND	333.00	376.00	113	48-136
4,4'-DDT	ND	333.00	366.00	110	34-143
Dieldrin	ND	333.00	335.00	101	41-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	411.40	103	20-150
Decachlorobiphenyl	667.00	623.00	93	20-150

REVISED REPORT

[Handwritten Signature] 6.9.96

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 11.7

BATCH NO.: 96E081
 SAMPLE ID: CLJ100-CS-022
 CONTROL NO.: E081-09
 ACCESSION: 96E081

DATE RECEIVED: 05/31/96
 DATE EXTRACTED: 05/31/96
 DATE ANALYZED: 06/01/96

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	189.00	200.00	106	189.00	221.00	117	10	20-170	50
alpha-Chlordane	ND	189.00	239.00	127	189.00	263.00	139	10	20-170	50
gamma-Chlordane	ND	189.00	233.00	123	189.00	251.00	133	8	20-170	50
4,4'-DDD	ND	377.00	462.00	122	377.00	463.00	123	0	20-170	50
4,4'-DDT	ND	377.00	476.00	126	377.00	476.00	126	0	20-170	50
Dieldrin	108.00	377.00	472.00	97	377.00	484.00	100	3	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	453.00	449.00	99	453.00	474.00	105	20-150
Decachlorobiphenyl	755.00	728.00	96	755.00	752.00	100	20-150

REVISED REPORT

[Handwritten Signature]
 C. J. [unclear]

INITIAL CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID: .53mm
 LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41
 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08
 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31
 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59
 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16132	17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
Dieldrin	10.0	17776	18480	17738	16977	15492	17293	7
DDE	10.0	14637	14751	15728	15085	14352	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12293	12243	12396	11543	11923	3
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11430	12385	3
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3872	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	6
DCB	10.0	19012	16603	15132	13136	11773	15132	19

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 5/31/1996
 File Name: TE31-3/4

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	21.28	6.4
gamma-BHC	20	19075	21.14	5.7
beta-BHC	20	7454	22.70	13.5
Heptachlor	20	17057	20.40	2.0
delta-BHC	20	14510	21.23	6.2
Aldrin	20	17944	21.31	6.6
Heptachlor Epoxide	20	17354	20.78	3.9
gamma-Chlordane	20	18498	20.77	3.9
Endosulfan I	20	17474	20.04	0.2
alpha-Chlordane	20	17987	20.73	3.7
Dieldrin	40	17293	40.13	0.3
DDE	40	14912	44.49	11.2
Endrin	40	13865	39.58	1.1
Endosulfan II	40	14787	41.89	4.7
DDD	40	11923	42.62	6.6
Endrin Aldehyde	40	12267	41.52	3.8
DDT	40	12385	41.41	3.5
Endosulfan Sulfate	40	14142	41.25	3.1
Endrin Ketone	40	15832	41.60	4.0
Methoxychlor	200	4708	206.92	3.5

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 5/31/1996
 File Name: TE31-10/11

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.11	10.5
gamma-BHC	20	19075	21.93	9.7
beta-BHC	20	7454	21.22	6.1
Heptachlor	20	17057	21.97	9.8
delta-BHC	20	14510	22.95	14.7
Aldrin	20	17944	21.59	7.9
Heptachlor Epoxide	20	17354	21.03	5.2
gamma-Chlordane	20	18498	20.99	5.0
Endosulfan I	20	17474	20.48	2.4
alpha-Chlordane	20	17987	20.94	4.7
Dieldrin	40	17293	41.10	2.8
DDE	40	14912	44.94	12.3
Endrin	40	13865	42.10	5.3
Endosulfan II	40	14787	42.40	6.0
DDD	40	11923	44.46	11.2
Endrin Aldehyde	40	12267	42.36	5.9
DDT	40	12385	43.69	9.2
Endosulfan Sulfate	40	14142	41.96	4.9
Endrin Ketone	40	15832	42.42	6.1
Methoxychlor	200	4708	226.86	13.4

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/1/1996
 File Name: TE31-24/25

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.26	11.3
gamma-BHC	20	19075	22.22	11.1
beta-BHC	20	7454	19.74	1.3
Heptachlor	20	17057	20.10	0.5
delta-BHC	20	14510	22.11	10.6
Aldrin	20	17944	21.81	9.0
Heptachlor Epoxide	20	17354	21.10	5.5
gamma-Chlordane	20	18498	21.32	6.6
Endosulfan I	20	17474	20.64	3.2
alpha-Chlordane	20	17987	21.21	6.0
Dieldrin	40	17293	41.51	3.8
DDE	40	14912	45.91	14.8
Endrin	40	13865	44.01	10.0
Endosulfan II	40	14787	42.91	7.3
DDD	40	11923	43.15	7.9
Endrin Aldehyde	40	12267	43.07	7.7
DDT	40	12385	45.57	13.9
Endosulfan Sulfate	40	14142	42.46	6.1
Endrin Ketone	40	15832	42.75	6.9
Methoxychlor	200	4708	228.62	14.3

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/1/1996
 File Name: TE31-36/37

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.65	13.3
gamma-BHC	20	19075	22.67	13.3
beta-BHC	20	7454	19.44	2.8
Heptachlor	20	17057	21.90	9.5
delta-BHC	20	14510	22.40	12.0
Aldrin	20	17944	21.80	9.0
Heptachlor Epoxide	20	17354	21.40	7.0
gamma-Chlordane	20	18498	21.42	7.1
Endosulfan I	20	17474	21.07	5.3
alpha-Chlordane	20	17987	21.32	6.6
Dieldrin	40	17293	42.30	5.8
DDE	40	14912	44.96	12.4
Endrin	40	13865	45.13	12.8
Endosulfan II	40	14787	43.39	8.5
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	43.58	8.9
DDT	40	12385	44.53	11.3
Endosulfan Sulfate	40	14142	43.13	7.8
Endrin Ketone	40	15832	42.99	7.5
Methoxychlor	200	4708	228.77	14.4

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/2/1996
 File Name: TF01-27/28

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.54	12.7
gamma-BHC	20	19075	22.47	12.4
beta-BHC	20	7454	21.90	9.5
Heptachlor	20	17057	19.02	4.9
delta-BHC	20	14510	23.07	15.3
Aldrin	20	17944	21.36	6.8
Heptachlor Epoxide	20	17354	19.76	1.2
gamma-Chlordane	20	18498	20.80	4.0
Endosulfan I	20	17474	20.63	3.1
alpha-Chlordane	20	17987	20.61	3.0
Dieldrin	40	17293	41.70	4.2
DDE	40	14912	44.20	10.5
Endrin	40	13865	43.20	8.0
Endosulfan II	40	14787	40.41	1.0
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	39.71	0.7
DDT	40	12385	42.71	6.8
Endosulfan Sulfate	40	14142	38.31	4.2
Endrin Ketone	40	15832	36.49	8.8
Methoxychlor	200	4708	228.73	14.4

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/2/1996
 File Name: TF01-31/32

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.75	13.8
gamma-BHC	20	19075	22.55	12.8
beta-BHC	20	7454	22.64	13.2
Heptachlor	20	17057	21.79	8.9
delta-BHC	20	14510	22.78	13.9
Aldrin	20	17944	22.98	14.9
Heptachlor Epoxide	20	17354	21.78	8.9
gamma-Chlordane	20	18498	22.41	12.0
Endosulfan I	20	17474	21.64	8.2
alpha-Chlordane	20	17987	22.25	11.2
Dieldrin	40	17293	43.48	8.7
DDE	40	14912	45.24	13.1
Endrin	40	13865	45.26	13.1
Endosulfan II	40	14787	44.37	10.9
DDD	40	11923	44.63	11.6
Endrin Aldehyde	40	12267	44.62	11.6
DDT	40	12385	45.27	13.2
Endosulfan Sulfate	40	14142	43.34	8.3
Endrin Ketone	40	15832	41.10	2.8
Methoxychlor	200	4708	230.88	15.4

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SE31-2	File: TE31-2
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	0.4	0
Endrin	7.2	3.7

	File: SE31-23	File: TE31-23
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	3 1.4	0.5
Endrin	3.0	1.2

	File: SE31-35	File: TE31-35
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	0.4	0.7
Endrin	4.0	1.1

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF01-26	File: TF01-26
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	1.4	0.7
Endrin	8.1	2.5

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

SEQUENCE FILE: SE31

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT. STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
2 PEM01/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
3 DCC1-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
4 DCC1-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
5 CPE017SB	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
6 CPE017SL	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
7 96E082-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
8 96E082-01M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
9 96E082-01S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
10 DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
11 DCC2-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
12 96E081-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
13 96E081-02	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
14 96E081-03	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
15 96E081-04	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
16 96E081-05	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
17 96E081-06	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
18 96E081-07	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
19 96E081-08	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
20 96E081-09	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
21 96E081-09M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
22 96E081-09S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
23 PEM02/10-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
24 DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
25 DCC2-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
26 96E081-10	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
27 96E081-11	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
28 96E081-12	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
29 96E081-13	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
30 96E081-14	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
31 96E081-15	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
32 96E081-16	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
33 96E081-17	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
34 96E081-18	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
35 PEM03/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
36 DCC3-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
37 DCC3-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: SF01

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
2 S1-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
3 S2-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
4 S3-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
5 S4-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
6 S5-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
7 DCC1-1221/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
8 DCC1-1232/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
9 DCC1-1242/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
10 DCC1-1248/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
11 DCC1-1254/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
12 DCC1-TOX/10-1-33-1	PCB01	SF01-	1.0000	1.0000	1.0000	1.0000
13 CPE009SB	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
14 CPE009SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
15 CPE009SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
16 96E040-04T 20X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
17 96E028-10M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
18 96E028-10S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
19 96E028-05	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
20 96E028-06	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
21 96E028-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
22 96E028-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
23 96E028-09	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
24 96E028-10	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
25 DCC1-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
26 PEM01/10C-1-20-2	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
27 DCC1-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
28 DCC1-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
29 96E081-13T 5X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
30 96E081-16T 10X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
31 DCC2-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
32 DCC2-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
33 DCC3-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
34 CPE013SB	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
35 CPE013SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
36 CPE013SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
37 96E065-01	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
38 96E065-01M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
39 96E065-01S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
40 96E065-02	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
41 96E065-03	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
42 96E065-04	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
43 96E065-05	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
44 96E065-06T 10X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
45 DCC4-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
46 96E065-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
47 96E065-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000

INITIAL CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID: .53mm
 LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41
 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08
 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31
 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59
 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16132	17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
Dieldrin	10.0	17776	18480	17738	16977	15492	17293	7
DDE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12293	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12257	10
DDT	10.0	12292	12971	12681	12553	11430	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16603	15132	13136	11773	15132	19

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 5/31/1996
 File Name: TE31-3/4

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	21.28	6.4
gamma-BHC	20	19075	21.14	5.7
beta-BHC	20	7454	22.70	13.5
Heptachlor	20	17057	20.40	2.0
delta-BHC	20	14510	21.23	6.2
Aldrin	20	17944	21.31	6.6
Heptachlor Epoxide	20	17354	20.78	3.9
gamma-Chlordane	20	18498	20.77	3.9
Endosulfan I	20	17474	20.04	0.2
alpha-Chlordane	20	17987	20.73	3.7
Dieldrin	40	17293	40.13	0.3
DDE	40	14912	44.49	11.2
Endrin	40	13865	39.58	1.1
Endosulfan II	40	14787	41.89	4.7
DDD	40	11923	42.62	6.6
Endrin Aldehyde	40	12267	41.52	3.8
DDT	40	12385	41.41	3.5
Endosulfan Sulfate	40	14142	41.25	3.1
Endrin Ketone	40	15832	41.60	4.0
Methoxychlor	200	4708	206.92	3.5

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 5/31/1996
 File Name: TE31-10/11

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.11	10.5
gamma-BHC	20	19075	21.93	9.7
beta-BHC	20	7454	21.22	6.1
Heptachlor	20	17057	21.97	9.8
delta-BHC	20	14510	22.95	14.7
Aldrin	20	17944	21.59	7.9
Heptachlor Epoxide	20	17354	21.03	5.2
gamma-Chlordane	20	18498	20.99	5.0
Endosulfan I	20	17474	20.48	2.4
alpha-Chlordane	20	17987	20.94	4.7
Dieldrin	40	17293	41.10	2.8
DDE	40	14912	44.94	12.3
Endrin	40	13865	42.10	5.3
Endosulfan II	40	14787	42.40	6.0
DDD	40	11923	44.46	11.2
Endrin Aldehyde	40	12267	42.36	5.9
DDT	40	12385	43.69	9.2
Endosulfan Sulfate	40	14142	41.96	4.9
Endrin Ketone	40	15832	42.42	6.1
Methoxychlor	200	4708	226.86	13.4

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/1/1996
 File Name: TE31-24/25

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.26	11.3
gamma-BHC	20	19075	22.22	11.1
beta-BHC	20	7454	19.74	1.3
Heptachlor	20	17057	20.10	0.5
delta-BHC	20	14510	22.11	10.6
Aldrin	20	17944	21.81	9.0
Heptachlor Epoxide	20	17354	21.10	5.5
gamma-Chlordane	20	18498	21.32	6.6
Endosulfan I	20	17474	20.64	3.2
alpha-Chlordane	20	17987	21.21	6.0
Dieldrin	40	17293	41.51	3.8
DDE	40	14912	45.91	14.8
Endrin	40	13865	44.01	10.0
Endosulfan II	40	14787	42.91	7.3
DDD	40	11923	43.15	7.9
Endrin Aldehyde	40	12267	43.07	7.7
DDT	40	12385	45.57	13.9
Endosulfan Sulfate	40	14142	42.46	6.1
Endrin Ketone	40	15832	42.75	6.9
Methoxychlor	200	4708	228.62	14.3

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/1/1996
 File Name: TE31-36/37

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.65	13.3
gamma-BHC	20	19075	22.67	13.3
beta-BHC	20	7454	19.44	2.8
Heptachlor	20	17057	21.90	9.5
delta-BHC	20	14510	22.40	12.0
Aldrin	20	17944	21.80	9.0
Heptachlor Epoxide	20	17354	21.40	7.0
gamma-Chlordane	20	18498	21.42	7.1
Endosulfan I	20	17474	21.07	5.3
alpha-Chlordane	20	17987	21.32	6.6
Dieldrin	40	17293	42.30	5.8
DDE	40	14912	44.96	12.4
Endrin	40	13865	45.13	12.8
Endosulfan II	40	14787	43.39	8.5
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	43.58	8.9
DDT	40	12385	44.53	11.3
Endosulfan Sulfate	40	14142	43.13	7.8
Endrin Ketone	40	15832	42.99	7.5
Methoxychlor	200	4708	228.77	14.4

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2

GC Column: Rtx-35

Date of Initial Calib: 5/24/1996

Date of Cont. Calib: 6/2/1996

File Name: TF01-27/28

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.54	12.7
gamma-BHC	20	19075	22.47	12.4
beta-BHC	20	7454	21.90	9.5
Heptachlor	20	17057	19.02	4.9
delta-BHC	20	14510	23.07	15.3
Aldrin	20	17944	21.36	6.8
Heptachlor Epoxide	20	17354	19.76	1.2
gamma-Chlordane	20	18498	20.80	4.0
Endosulfan I	20	17474	20.63	3.1
alpha-Chlordane	20	17987	20.61	3.0
Dieldrin	40	17293	41.70	4.2
DDE	40	14912	44.20	10.5
Endrin	40	13865	43.20	8.0
Endosulfan II	40	14787	40.41	1.0
DDD	40	11923	45.14	12.8
Endrin Aldehyde	40	12267	39.71	0.7
DDT	40	12385	42.71	6.8
Endosulfan Sulfate	40	14142	38.31	4.2
Endrin Ketone	40	15832	36.49	8.8
Methoxychlor	200	4708	228.73	14.4

PESTICIDE CONTINUING CALIBRATION

Instrument ID: GC2
 GC Column: Rtx-35
 Date of Initial Calib: 5/24/1996
 Date of Cont. Calib: 6/2/1996
 File Name: TF01-31/32

COMPOUND	EXP. CONC.(ppb)	Ave. CF	CONC.(ppb)	%D
alpha-BHC	20	19791	22.75	13.8
gamma-BHC	20	19075	22.55	12.8
beta-BHC	20	7454	22.64	13.2
Heptachlor	20	17057	21.79	8.9
delta-BHC	20	14510	22.78	13.9
Aldrin	20	17944	22.98	14.9
Heptachlor Epoxide	20	17354	21.78	8.9
gamma-Chlordane	20	18498	22.41	12.0
Endosulfan I	20	17474	21.64	8.2
alpha-Chlordane	20	17987	22.25	11.2
Dieldrin	40	17293	43.48	8.7
DDE	40	14912	45.24	13.1
Endrin	40	13865	45.26	13.1
Endosulfan II	40	14787	44.37	10.9
DDD	40	11923	44.63	11.6
Endrin Aldehyde	40	12267	44.62	11.6
DDT	40	12385	45.27	13.2
Endosulfan Sulfate	40	14142	43.34	8.3
Endrin Ketone	40	15832	41.10	2.8
Methoxychlor	200	4708	230.88	15.4

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SE31-2	File: TE31-2
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	0.4	0
Endrin	7.2	3.7

	File: SE31-23	File: TE31-23
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	2 1.4	0.5
Endrin	3.0	1.2

	File: SE31-35	File: TE31-35
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	0.4	0.7
Endrin	4.0	1.1

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF01-26	File: TF01-26
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	1.4	0.7
Endrin	8.1	2.5

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

SEQUENCE FILE: SE31

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
2 PEM01/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
3 DCC1-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
4 DCC1-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
5 CPE017SB	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
6 CPE017SL	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
7 96E082-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
8 96E082-01M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
9 96E082-01S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
10 DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
11 DCC2-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
12 96E081-01	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
13 96E081-02	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
14 96E081-03	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
15 96E081-04	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
16 96E081-05	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
17 96E081-06	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
18 96E081-07	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
19 96E081-08	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
20 96E081-09	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
21 96E081-09M	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
22 96E081-09S	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
23 PEM02/10-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
24 DCC2-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
25 DCC2-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
26 96E081-10	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
27 96E081-11	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
28 96E081-12	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
29 96E081-13	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
30 96E081-14	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
31 96E081-15	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
32 96E081-16	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
33 96E081-17	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
34 96E081-18	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
35 PEM03/10C-1-20-2	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
36 DCC3-MIXA/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000
37 DCC3-MIXB/10-1-242	PEST6	SE31-	1.0000	1.0000	1.0000	1.0000

SEQUENCE FILE: SF01

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
2 S1-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
3 S2-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
4 S3-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
5 S4-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
6 S5-1660/10-1-30-2	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
7 DCC1-1221/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
8 DCC1-1232/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
9 DCC1-1242/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
10 DCC1-1248/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
11 DCC1-1254/10-1-122	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
12 DCC1-TOX/10-1-33-1	PCB01	SF01-	1.0000	1.0000	1.0000	1.0000
13 CPE009SB	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
14 CPE009SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
15 CPE009SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
16 96E040-04T 20X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
17 96E028-10M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
18 96E028-10S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
19 96E028-05	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
20 96E028-06	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
21 96E028-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
22 96E028-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
23 96E028-09	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
24 96E028-10	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
25 DCC1-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
26 PEM01/10C-1-20-2	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
27 DCC1-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
28 DCC1-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
29 96E081-13T 5X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
30 96E081-16T 10X	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
31 DCC2-MIXA/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
32 DCC2-MIXB/10-1-242	PEST6	SF01-	1.0000	1.0000	1.0000	1.0000
33 DCC3-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
34 CPE013SB	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
35 CPE013SL	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
36 CPE013SC	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
37 96E065-01	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
38 96E065-01M	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
39 96E065-01S	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
40 96E065-02	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
41 96E065-03	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
42 96E065-04	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
43 96E065-05	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
44 96E065-06T 10X	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
45 DCC4-1660/10-1-302	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
46 96E065-07	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000
47 96E065-08	1660F01	SF01-	1.0000	1.0000	1.0000	1.0000



CKY incorporated Analytical Laboratories

Date: 06-05-1996
CKY Batch No.: 96F004

Attn: Ms. Missy Art

OHM
5335 Triangle Parkway Suite 450
Norcross, GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/01/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-031	F004-01	Soil	EPA 8080
CLJ100-CS-032	F004-02	Soil	EPA 8080
CLJ100-CS-033	F004-03	Soil	EPA 8080
CLJ100-CS-034	F004-04	Soil	EPA 8080
CLJ100-CS-035	F004-05	Soil	EPA 8080
CLJ100-CS-036	F004-06	Soil	EPA 8080
CLJ100-CS-037	F004-07	Soil	EPA 8080
CLJ100-CS-038	F004-08	Soil	EPA 8080
CLJ100-CS-040	F004-10	Soil	EPA 8080
CLJ100-CS-040DP	F004-11	Soil	EPA 8080
CLJ100-CS-041	F004-12	Soil	EPA 8080
CLJ100-CS-042	F004-13	Soil	EPA 8080
CLJ100-CS-043	F004-14	Soil	EPA 8080
CLJ100-CS-044	F004-15	Soil	EPA 8080
CLJ100-CS-045	F004-16	Soil	EPA 8080
CLJ100-CS-046	F004-17	Soil	EPA 8080
CLJ100-CS-047	F004-18	Soil	EPA 8080
CLJ100-RB-531	F004-19	Water	EPA 608
CLJ100-FB-531	F004-20	Water	EPA 608

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.



TRANSFER 2

CHAIN-OF-CUSTODY RECORD

Form 0019
Field Technical Services
Rev. 08/89

96F004 D4

166577

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS																					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.																									
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																									
ITEM NO.	SAMPLE NUMBER	DATE	TIME									COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)													
Camp Lejeune		Camp Lejeune, N.C.		1-802	TCL Pest. Lides (2080)	T=200 NEESA Level C																					
18319	Alan Whitt	A10) 451-2599																									
VADW Marshburn		Jim DeWitt / Alan Whitt																									
1	CL5100-CS-031	5/31/96	1047										X	Confirmation Sample from AOC 25-28 Sidewall													
2	CL5100-CS-032	5/31/96	1051										X	Confirmation Sample from AOC 29-32 Sidewall													
3	CL5100-CS-033	5/31/96	1054										X	Confirmation Sample from AOC 29-32 Sidewall													
4	CL5100-CS-034	5/31/96	1057										X	Confirmation Sample from AOC 29-32 Sidewall													
5	CL5100-CS-035	5/31/96	1104										X	Confirmation Sample from AOC 29-32 Sidewall													
6	CL5100-CS-036	5/31/96	1108										X	Confirmation Sample from AOC 29-32 Sidewall													
7	CL5100-CS-037	5/31/96	1113										X	Confirmation Sample from AOC 29-32 Sidewall													
8	CL5100-CS-038	5/31/96	1117		X	Confirmation Sample from AOC 29-32 Base																					
9	CL5100-CS-039	5/31/96	1122		X	Confirmation Sample from AOC 29-32 Base																					
10	CL5100-CS-040	5/31/96	1125		X	Confirmation Sample from AOC 27-32 Base																					
TRANSFER NUMBER	IT NUM	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS																			
								Samples sent to ORV																			



CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019
Field Technical Services
Rev. 08/89

96F004 NY 166578

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)				
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.						
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR							
ITEM NO.	SAMPLE NUMBER	DATE	TIME		COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS
Camp Lejeune		Camp Lejeune, NC		TEL Pesticides (9080)				
18319	Alan Whitt	(910) 451-2549						
VANA Marshburn		Jim Dew/ Alan Whitt						
11	CS100-CS-040 DP	3/31/96	1235		X	Duplicate Confirmation Sample from AOC 29-32 at Small Base	1-8oz	NEESA Level C
12	CS100-CS-041	3/31/96	1236		X	Confirmation Sample from AOC 13-16 Base	1-8oz	
13	CS100-CS-042	3/31/96	1239		X	Confirmation Sample from AOC 13-16 Silomall	1-8oz	
14	CS100-CS-043	3/31/96	1242		X	Confirmation Sample from AOC 13-16 Silomall	1-8oz	
15	CS100-CS-044	3/31/96	1245		X	Confirmation Sample from AOC 13-16 Silomall	1-8oz	
16	CS100-CS-045	3/31/96	1248		X	Confirmation Sample from AOC 13-16 Silomall	1-8oz	
17	CS100-CS-046	3/31/96	1250		X	Confirmation Sample from AOC 17-20 Base	1-8oz	
18	CS100-CS-047	3/31/96	1253		X	Confirmation Sample from AOC 17-20 Base	1-8oz	
19	CS100-RB-531	3/31/96	1301		X	Picnate Blank	1-1L	
20	CS100-FB-531	3/31/96	1306		X	Field Blank	1-1L	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Alan R. Howard	FED EX 6921991301	3/31/96	1700	Samples sent to CKY Inc. 48 hr TAT
2						

CORRECTIVE ACTION FORM
(CKY Sample Receipt Discrepancy)

Client	OAM
CKY Batch No.	96F004
Control No.	
Method	8080
Matrix	pril

1) Nature of Discrepancy:

Sample 96F004-6 → bottle was received broken.

2) Corrective Action:

Informed Carl Pempel.

3) Result of Corrective Action:

Plse. analyze whatever was recuperated from this sample.

Approved by: Leiteit Oleg

Date: 6/3/96

4) Further Corrective Action Taken?

Yes

No

Date: _____

Analyze all samples in this SDG, except 96F004-9.

Results (verbal or written) for 96F004-1 are required needed ASAP!

Approved by: Leiteit Oleg

Date: 6/3/96

6/6/96
print 6/1/96

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F004

JUNE 06, 1996

CASE NARRATIVE

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
SDG: 96F004

CHLORINATED PESTICIDES

Eighteen (18) soil and two (2) water samples were received on 06/01/96 for Pesticide analysis in accordance with SW846. Sample F004-06 container was broken upon receiving but the sample was requested for analysis. Sample F004-09 was canceled.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

Both soil and water method blanks were free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs for soil matrix were within the QC limits. There was no MS/MSD for water matrix, LCS/LCSD were analyzed as precision QC samples.

IV. Lab Control Sample/Lab Control Duplicate

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits. Rtx35 was a quantitation column. All continue calibrations in the quantitation column were checked at 12 hour interval and all recoveries were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met QC requirements. All results were confirmed by the second column Rtx5.

01

SAMPLE RESULTS

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-031           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-01                 MATRIX:         SOIL
% MOISTURE:  8.8                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.6
alpha-BHC	ND	11
beta-BHC	ND	21.9
delta-BHC	ND	27.4
gamma-BHC (Lindane)	ND	18.6
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	21.9
Endosulfan I	ND	18.6
Endosulfan II	ND	219
Endosulfan Sulfate	ND	21.9
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	219
Heptachlor Epoxide	ND	548
Methoxychlor	ND	1100
Toxaphene	ND	2190
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	94	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-032           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-02                 MATRIX:         SOIL
% MOISTURE:  7.0                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.8
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	215
Heptachlor Epoxide	ND	538
Methoxychlor	ND	1080
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	101	20-150
Decachlorobiphenyl	96	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:  CLJ100-CS-033           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-03                MATRIX:         SOIL
% MOISTURE: 9.3                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.7
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.7
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	110
Endosulfan I	ND	22.1
Endosulfan II	ND	18.7
Endosulfan Sulfate	ND	221
Endrin	ND	22.1
Endrin aldehyde	ND	110
Heptachlor	ND	11
Heptachlor Epoxide	ND	221
Methoxychlor	ND	551
Toxaphene	ND	1100
		2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	105	20-150
Decachlorobiphenyl	101	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-034          DATE ANALYZED:  06/04/96
CONTROL NO.: F004-04                MATRIX:         SOIL
% MOISTURE:  6.6                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	107
Endosulfan I	ND	21.4
Endosulfan II	ND	18.2
Endosulfan Sulfate	ND	214
Endrin	ND	21.4
Endrin aldehyde	ND	107
Heptachlor	ND	10.7
Heptachlor Epoxide	ND	214
Methoxychlor	ND	535
Toxaphene	ND	1070
		2140
URROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F004
SAMPLE ID:   CLJ100-CS-035
CONTROL NO.: F004-05
% MOISTURE:  17.4

DATE COLLECTED: 05/31/96
DATE RECEIVED:  06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/04/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.6
alpha-BHC	ND	12.1
beta-BHC	ND	24.2
delta-BHC	ND	30.3
gamma-BHC (Lindane)	ND	20.6
alpha-Chlordane	ND	121
gamma-Chlordane	ND	121
4,4'-DDD	ND	121
4,4'-DDE	ND	121
4,4'-DDT	ND	121
Dieldrin	ND	24.2
Endosulfan I	ND	20.6
Endosulfan II	ND	242
Endosulfan Sulfate	ND	24.2
Endrin	ND	121
Endrin aldehyde	ND	12.1
Heptachlor	ND	242
Heptachlor Epoxide	ND	605
Methoxychlor	ND	1210
Toxaphene	ND	2420
URROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-036           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-06                 MATRIX:         SOIL
% MOISTURE:  11.4                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.2
alpha-BHC	ND	11.3
beta-BHC	ND	22.6
delta-BHC	ND	28.2
gamma-BHC (Lindane)	ND	19.2
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	120	113
4,4'-DDE	950*	113
4,4'-DDT	ND	113
Dieldrin	110	22.6
Endosulfan I	ND	19.2
Endosulfan II	ND	226
Endosulfan Sulfate	ND	22.6
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	226
Heptachlor Epoxide	ND	564
Methoxychlor	ND	1130
Toxaphene	ND	2260
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	98	20-150

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=====
RL: Reporting Limit
* : Was diluted at DF 10 and reanalyzed on 06/05/96 due to high
    concentration level.

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EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F004
SAMPLE ID:   CLJ100-CS-037
CONTROL NO.: F004-07
% MOISTURE:  12.3
DATE COLLECTED: 05/31/96
DATE RECEIVED:  06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/04/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	180	114
4,4'-DDT	ND	114
Dieldrin	30	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	570
Methoxychlor	ND	1140
Toxaphene	ND	2280
URROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	93	20-150
Decachlorobiphenyl	91	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:   96F004
SAMPLE ID:   CLJ100-CS-038
CONTROL NO.: F004-08
% MOISTURE:  6.3
DATE COLLECTED: 05/31/96
DATE RECEIVED:  06/01/96
DATE EXTRACTED: 06/04/96
DATE ANALYZED:  06/04/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.1
alpha-BHC	ND	10.7
beta-BHC	ND	21.3
delta-BHC	ND	26.7
gamma-BHC (Lindane)	ND	18.1
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	180	107
4,4'-DDT	ND	107
Dieldrin	60	21.3
Endosulfan I	ND	18.1
Endosulfan II	ND	213
Endosulfan Sulfate	ND	21.3
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	213
Heptachlor Epoxide	ND	534
Methoxychlor	ND	1070
Toxaphene	ND	2130
URROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-040           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-10                 MATRIX:          SOIL
% MOISTURE:  15.8                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.2
alpha-BHC	ND	11.9
beta-BHC	ND	23.8
delta-BHC	ND	29.7
gamma-BHC (Lindane)	ND	20.2
alpha-Chlordane	ND	119
gamma-Chlordane	ND	119
4,4'-DDD	170	119
4,4'-DDE	120	119
4,4'-DDT	ND	119
Dieldrin	43	23.8
Endosulfan I	ND	20.2
Endosulfan II	ND	238
Endosulfan Sulfate	ND	23.8
Endrin	ND	119
Endrin aldehyde	ND	11.9
Heptachlor	ND	238
Heptachlor Epoxide	ND	594
Methoxychlor	ND	1190
Toxaphene	ND	2380
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	96	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:  CLJ100-CS-040DP          DATE ANALYZED:  06/04/96
CONTROL NO.: F004-11                 MATRIX:         SOIL
% MOISTURE: 15.5                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.1
alpha-BHC	ND	11.8
beta-BHC	ND	23.7
delta-BHC	ND	29.6
gamma-BHC (Lindane)	ND	20.1
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	ND	118
4,4'-DDT	ND	118
Dieldrin	31	23.7
Endosulfan I	ND	20.1
Endosulfan II	ND	237
Endosulfan Sulfate	ND	23.7
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	237
Heptachlor Epoxide	ND	592
Methoxychlor	ND	1180
Toxaphene	ND	2370
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	90	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-041           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-12                 MATRIX:         SOIL
% MOISTURE:  9.7                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11.1
beta-BHC	ND	22.1
delta-BHC	ND	27.7
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	221
Heptachlor Epoxide	ND	554
Methoxychlor	ND	1110
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-042           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-13                 MATRIX:         SOIL
% MOISTURE:  8.3                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.5
alpha-BHC	ND	10.9
beta-BHC	ND	21.8
delta-BHC	ND	27.3
gamma-BHC (Lindane)	ND	18.5
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	21.8
Endosulfan I	ND	18.5
Endosulfan II	ND	218
Endosulfan Sulfate	ND	21.8
Endrin	ND	109
Endrin aldehyde	ND	10.9
Heptachlor	ND	218
Heptachlor Epoxide	ND	545
Methoxychlor	ND	1090
Toxaphene	ND	2180
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-043           DATE ANALYZED:  06/04/96
CONTROL NO.: F004-14                 MATRIX:         SOIL
% MOISTURE:  12.2                    DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.8
Endosulfan I	ND	19.4
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	569
Methoxychlor	ND	1140
Toxaphene	ND	2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	98	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-044          DATE ANALYZED:  06/05/96
CONTROL NO.: F004-15                MATRIX:         SOIL
% MOISTURE:  6.4                     DILUTION FACTOR: 1
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.7
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	38	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	534
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	97	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-045           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-16                 MATRIX:         SOIL
% MOISTURE:  7.6                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	21.6
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	21.6
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	99	20-150
Decachlorobiphenyl	100	20-150

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:  96F004                   DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-046           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-17                 MATRIX:         SOIL
% MOISTURE:  6.9                      DILUTION FACTOR: 1
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	107
Endosulfan I	ND	21.5
Endosulfan II	ND	18.3
Endosulfan Sulfate	ND	215
Endrin	ND	21.5
Endrin aldehyde	ND	107
Heptachlor	ND	10.7
Heptachlor Epoxide	ND	215
Methoxychlor	ND	537
Toxaphene	ND	1070
		2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	102	20-150
Decachlorobiphenyl	102	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-CS-047           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-18                 MATRIX:         SOIL
% MOISTURE:  10.3                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19
alpha-BHC	ND	11.1
beta-BHC	ND	22.3
delta-BHC	ND	27.9
gamma-BHC (Lindane)	ND	19
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.3
Endosulfan I	ND	19
Endosulfan II	ND	223
Endosulfan Sulfate	ND	22.3
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	223
Heptachlor Epoxide	ND	557
Methoxychlor	ND	1110
Toxaphene	ND	2230
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
 EPA METHOD 8080
 PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:   NA
BATCH NO.:   96F004                  DATE EXTRACTED:  06/04/96
SAMPLE ID:   MBLK1S                  DATE ANALYZED:   06/04/96
CONTROL NO.: CPF004SQ                MATRIX:          SOIL
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====
  
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	93	20-150
Decachlorobiphenyl	90	20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96F004
 SAMPLE ID: CLJ100-CS-041
 CONTROL NO.: F004-12
 ACCESSION: 96F004

DATE RECEIVED: 06/01/96
 DATE EXTRACTED: 06/04/96
 DATE ANALYZED: 06/05/96

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	187.00	112	167.00	195.00	117	4	20-170	50
alpha-Chlordane	ND	167.00	208.00	125	167.00	204.00	122	2	20-170	50
gamma-Chlordane	ND	167.00	179.00	107	167.00	189.00	113	5	20-170	50
4,4'-DDD	ND	333.00	333.00	100	333.00	400.00	120	18	20-170	50
4,4'-DDT	ND	333.00	349.00	105	333.00	415.00	125	17	20-170	50
Dieldrin	ND	333.00	285.00	86	333.00	330.00	99	15	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	383.00	96	400.00	416.00	104	28-137
Decachlorobiphenyl	667.00	619.00	93	667.00	659.00	99	51-153

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 F T: 18319/CAMP LEJEUNE
 N : EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96F004 DATE RECEIVED: NA
 SAMPLE ID: LCS1S/LCS1SD DATE EXTRACTED: 06/04/96
 CONTROL NO.: CPF004SL/C DATE ANALYZED: 06/04/96
 ACCESSION: 96F004

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	177.00	106	167.00	178.00	107	1	47-116	75
alpha-Chlordane	ND	167.00	182.00	109	167.00	198.00	119	8	45-119	75
gamma-Chlordane	ND	167.00	174.00	104	167.00	176.00	105	1	45-119	75
4,4'-DDD	ND	333.00	364.00	109	333.00	360.00	108	1	48-136	75
4,4'-DDT	ND	333.00	386.00	116	333.00	378.00	114	2	34-143	75
Dieldrin	ND	333.00	312.00	94	333.00	307.00	92	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	405.00	101	400.00	397.00	99	28-137
Decachlorobiphenyl	667.00	608.00	91	667.00	612.00	92	51-153

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-RB-531           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-19                 MATRIX:         WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
 SURROGATE PARAMETER	 % RECOVERY	 QC LIMIT
Tetrachloro-m-xylene	104	30-150
Decachlorobiphenyl	50	24-154

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 05/31/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/01/96
BATCH NO.:   96F004                  DATE EXTRACTED: 06/04/96
SAMPLE ID:   CLJ100-FB-531           DATE ANALYZED:  06/05/96
CONTROL NO.: F004-20                 MATRIX:         WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	30-150
Decachlorobiphenyl	61	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:   NA
BATCH NO.:   96F004                  DATE EXTRACTED:  06/04/96
SAMPLE ID:   MBLK1W                  DATE ANALYZED:   06/05/96
CONTROL NO.: CPF003WB                MATRIX:          WATER
% MOISTURE:  NA                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	117	30-150
Decachlorobiphenyl	57	24-154

RL: Reporting Limit

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 CITY: EPA 8080
 MATRIX: WATER
 % MOISTURE: NA

BATCH NO.: 96F004
 SAMPLE ID: LCS1W/LCS1WD
 CONTROL NO.: CPF003WL/C

DATE RECEIVED: NA
 DATE EXTRACTED: 06/04/96
 DATE ANALYZED: 06/05/96

ACCESSION: 96F004

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	.50	.49	98	.50	.52	104	6	47-116	50
alpha-Chlordane	ND	.50	.54	108	.50	.58	116	7	45-119	50
gamma-Chlordane	ND	.50	.50	100	.50	.53	106	6	45-119	50
4,4'-DDD	ND	1.00	1.09	109	1.00	1.13	113	4	48-136	50
4,4'-DDT	ND	1.00	1.14	114	1.00	1.15	115	1	34-143	50
Dieldrin	ND	1.00	.98	98	1.00	1.01	101	3	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	1.20	.92	77	1.20	1.01	84	23-141
Decachlorobiphenyl	2.00	1.70	85	2.00	1.75	88	32-195

CALIBRATION

INITIAL CALIBRATION
METHOD 8080

```

Lab Name       : CKY Inc
Instrument ID  : GC2
GC Column     : Rtx-35
Column size ID: .53mm
LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41
LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08
LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31
LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59
LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29
CONC UNIT:    ppb
  
```

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16138	17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
Dieldrin	10.0	17776	18480	17738	16977	15492	17293	7
DE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12293	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11438	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16603	15132	13136	11773	15132	19

25A

INITIAL CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 Column : Rtx-5
 Column size ID: .53mm
 LFID & Datime: SE24-19 05-24-96 21:54:58 SE24-20 05-24-96 22:31:41
 LFID & Datime: SE24-21 05-24-96 23:08:24 SE24-22 05-24-96 23:45:08
 LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 05-25-96 00:58:31
 LFID & Datime: SE24-25 05-25-96 01:35:14 SE24-26 05-25-96 02:11:59
 LFID & Datime: SE24-27 05-25-96 02:48:44 SE24-28 05-25-96 03:25:29
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	41177	40213	36602	35330	37833	38231	6
gamma-BHC	5.0	39466	38125	34581	33179	32912	35653	8
beta-BHC	5.0	12873	12269	12313	11812	10785	12010	7
Heptachlor	5.0	38017	35794	31986	29595	27129	32504	14
delta-BHC	5.0	31204	29740	30810	28493	26524	29354	6
Aldrin	5.0	41336	36959	35395	31574	29036	34860	14
Heptachlor Epoxide	5.0	38270	34034	32210	28418	24971	31580	16
gamma-Chlordane	5.0	40880	36679	35288	31884	29581	34862	13
Endosulfan I	5.0	38762	36592	32704	30001	25870	32786	16
alpha-Chlordane	5.0	38568	34592	32931	29464	27174	32546	14
Dieldrin	10.0	37937	34760	30380	27539	25473	31218	16
Endrin	10.0	34211	31081	29800	26624	26983	29740	11
Endrin	10.0	28592	25987	22718	20193	17321	22962	20
Endosulfan II	10.0	30975	27043	24766	21386	19291	24692	19
DDD	10.0	25089	24939	23337	22215	20797	23275	8
Endrin Aldehyde	10.0	22346	19674	19022	16709	14831	18516	16
DDT	10.0	25517	24813	23100	21951	21627	23402	7
Endosulfan Sulfate	10.0	27102	24039	22216	19235	17221	21963	18
Endrin Ketone	10.0	26944	23503	21553	18352	16370	21345	20
Methoxychlor	50.0	8087	7174	6044	5125	4086	6103	26
TCX	5.0	25345	23077	22221	19841	18204	21737	13
DCB	10.0	20292	18060	17138	15647	15126	17253	12

25B

CONTINUE CALIBRATION
METHOD 8080

```

Name           : CKY Inc
Instrument ID   : GC2
GC Column      : Rtx-5
Column size ID : 0.53mm
Mid Con Init LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 0
Mid Con Cont LFID & Datime: SF04-3 06-04-96 12:01:37 SF04-4 0
CONC UNIT      : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	38231	22.0	10
gamma-BHC	20.0	35653	22.5	12
beta-BHC	20.0	12010	36.3	82
Heptachlor	20.0	32504	23.5	17
delta-BHC	20.0	29354	37.0	85
Aldrin	20.0	34860	32.0	60
Heptachlor Epoxide	20.0	31580	30.9	54
gamma-Chlordane	20.0	34862	31.2	56
Endosulfan I	20.0	32786	21.4	7
alpha-Chlordane	20.0	32546	31.4	57
Dieldrin	40.0	31218	41.3	3
DDE	40.0	29740	63.4	59
Endrin	40.0	22962	53.2	33
Endosulfan II	40.0	24692	59.5	49
	40.0	23275	39.9	0
Endrin Aldehyde	40.0	18516	59.9	50
DDT	40.0	23402	39.4	2
Endosulfan Sulfate	40.0	21963	57.3	43
Endrin Ketone	40.0	21345	59.8	49
Methoxychlor	200.0	6103	253.8	27
TCX	20.0	21737	34.4	72
DCB	40.0	17253	61.0	52

25C

CONTINUE CALIBRATION
METHOD 8080

L Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID : 0.53mm
 Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
 Mid Con Cont LFID & Datime: TF04-3 06-04-96 12:01:37 TF04-4 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	19.8	1
gamma-BHC	20.0	19075	19.4	3
beta-BHC	20.0	7454	21.4	7
Heptachlor	20.0	17057	21.0	5
delta-BHC	20.0	14510	21.5	7
Aldrin	20.0	17944	19.2	4
Heptachlor Epoxide	20.0	17354	18.3	9
gamma-Chlordane	20.0	18498	18.6	7
Endosulfan I	20.0	17474	18.1	10
alpha-Chlordane	20.0	17987	18.7	6
Dieldrin	40.0	17293	36.3	9
DDE	40.0	14912	40.0	0
Endrin	40.0	13865	38.7	3
Endosulfan II	40.0	14787	37.2	7
	40.0	11923	39.2	2
Endrin Aldehyde	40.0	12267	37.2	7
DDT	40.0	12385	39.1	2
Endosulfan Sulfate	40.0	14142	36.4	9
Endrin Ketone	40.0	15832	36.5	9
Methoxychlor	200.0	4708	221.7	11
TCX	20.0	14832	19.4	3
DCB	40.0	15132	35.4	11

25D

CONTINUE CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-5
 Column size ID : .53mm
 Mid Con Init LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 0
 Mid Con Cont LFID & Datime: SF04-22 06-04-96 23:48:37 SF04-23 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	38231	29.3	46
gamma-BHC	20.0	35653	30.1	51
beta-BHC	20.0	12010	33.9	69
Heptachlor	20.0	32504	31.9	59
delta-BHC	20.0	29354	34.2	71
Aldrin	20.0	34860	30.9	54
Heptachlor Epoxide	20.0	31580	30.2	51
gamma-Chlordane	20.0	34862	30.9	55
Endosulfan I	20.0	32786	29.4	47
alpha-Chlordane	20.0	32546	31.4	57
Dieldrin	40.0	31218	57.3	43
DDE	40.0	29740	62.4	56
Endrin	40.0	22962	61.6	54
Endosulfan II	40.0	24692	59.5	49
DDD	40.0	23275	62.0	55
Endrin Aldehyde	40.0	18516	59.4	48
DDT	40.0	23402	61.6	54
Endosulfan Sulfate	40.0	21963	58.1	45
Endrin Ketone	40.0	21345	59.9	50
Methoxychlor	200.0	6103	323.1	62
TCX	20.0	21737	30.8	54
DCB	40.0	17253	52.4	31

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF04-22 06-04-96 23:48:37 TF04-23 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.6	8
gamma-BHC	20.0	19075	21.4	7
beta-BHC	20.0	7454	21.7	9
Heptachlor	20.0	17057	22.4	12
delta-BHC	20.0	14510	22.1	11
Aldrin	20.0	17944	20.5	2
Heptachlor Epoxide	20.0	17354	19.9	1
gamma-Chlordane	20.0	18498	20.0	0
Endosulfan I	20.0	17474	19.7	1
alpha-Chlordane	20.0	17987	20.0	0
Dieldrin	40.0	17293	39.2	2
DDE	40.0	14912	42.7	7
Endrin	40.0	13865	42.4	6
Endosulfan II	40.0	14787	39.5	1
	40.0	11923	43.2	8
Endrin Aldehyde	40.0	12267	39.8	0
DDT	40.0	12385	43.8	10
Endosulfan Sulfate	40.0	14142	38.7	3
Endrin Ketone	40.0	15832	39.1	2
Methoxychlor	200.0	4708	228.0	14
TCX	20.0	14832	20.9	5
DCB	40.0	15132	37.3	7

CONTINUE CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-5
 Column size ID : .53mm
 Mid Con Init LFID & Datime: SE24-23 05-25-96 00:21:50 SE24-24 0
 Mid Con Cont LFID & Datime: SF04-41 06-05-96 11:27:08 SF04-42 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	38231	31.3	56
gamma-BHC	20.0	35653	31.8	59
beta-BHC	20.0	12010	33.9	70
Heptachlor	20.0	32504	33.4	67
delta-BHC	20.0	29354	34.0	70
Aldrin	20.0	34860	30.9	54
Heptachlor Epoxide	20.0	31580	30.1	51
gamma-Chlordane	20.0	34862	30.7	54
Endosulfan I	20.0	32786	30.7	53
alpha-Chlordane	20.0	32546	31.0	55
Dieldrin	40.0	31218	59.4	49
DDE	40.0	29740	61.5	54
Endrin	40.0	22962	73.1	83
Endosulfan II	40.0	24692	58.6	46
	40.0	23275	63.3	58
Aldrin Aldehyde	40.0	18516	57.7	44
DDT	40.0	23402	63.2	58
Endosulfan Sulfate	40.0	21963	56.8	42
Endrin Ketone	40.0	21345	58.8	47
Methoxychlor	200.0	6103	331.4	66
TCX	20.0	21737	31.3	56
DCB	40.0	17253	62.8	57

25G

CONTINUE CALIBRATION
METHOD 8080

I Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID : .53mm
 Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
 Mid Con Cont LFID & Datime: TF04-41 06-05-96 11:27:08 TF04-42 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.4	7
gamma-BHC	20.0	19075	21.2	6
beta-BHC	20.0	7454	21.4	7
Heptachlor	20.0	17057	21.0	5
delta-BHC	20.0	14510	21.6	8
Aldrin	20.0	17944	19.4	3
Heptachlor Epoxide	20.0	17354	18.6	7
gamma-Chlordane	20.0	18498	18.8	6
Endosulfan I	20.0	17474	22.8	14
alpha-Chlordane	20.0	17987	18.9	6
Dieldrin	40.0	17293	39.1	2
DDE	40.0	14912	40.3	1
Endrin	40.0	13865	42.0	5
Endosulfan II	40.0	14787	37.2	7
	40.0	11923	42.3	6
Endrin Aldehyde	40.0	12267	37.3	7
DDT	40.0	12385	41.4	4
Endosulfan Sulfate	40.0	14142	36.6	9
Endrin Ketone	40.0	15832	36.8	8
Methoxychlor	200.0	4708	211.2	6
TCX	20.0	14832	19.9	0
DCB	40.0	15132	35.7	11

25H

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF04-2	File: TF04-2
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	0.4	0
Endrin	2.1	1.2

	File: SF04-21	File: TF04-21
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	1.8	0
Endrin	0.9	0

	File: SF04-40	File: TF04-40
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	1.3	0
Endrin	2.1	0

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ANALYSIS SEQUENCE AND EXTRACTION LOG

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

OHM
WATER

METHOD

8080

PAGE #

DATE EXTRACTED

6/02/96 16:00

DATE COMPLETED

6/03/96 16:00

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/A/R)	NOTES
CPFO03 - WB	1000		10		
WL	↓		↓		
NC					
E080 - 16					
17					
F004 - 19	↓		↓		
20					
7					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2CL2	954496 36082
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID	S10C-01-22-02	1.0
SURROGATE ID	S10C-1-23-2	1.0

SDG #	EXTRACT LOCATION
	GC-PLACE

COMMENTS:

PREPARED BY: MM
 STD'S ADDED BY: MM/TOM
 CHECKED BY: ML

Extracts Received By:

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

96

CLIENT
MATRIX

DHM
SOIL

METHOD
DATE EXTRACTED

6080

6/03/96

PAGE #

DATE COMPLETED

06/04/96

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/A/F)	NOTES
CPF004 - 5G	-		10		
SZ	-				
SZ	-				
F004 - 01	3.0				
02					
03					
04					
05					
06					
07					
08					
10					
11					
12					
12M					
12S					
13					
14					
15					
16					
17					
18					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2CL2	36082
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE MIX A	S10C-01-0-34-02	0.40
SURROGATE ID	S10C-01-0-35-02	2.0
SPIKE MIX B	S10C-01-0-35-01	0.40

SDG #	EXTRACT LOCATION
	GC-RI-MDL-PCB

COMMENTS:

time started: 17:00
time completed: 10:30

PREPARED BY:

MD/ML/FY

STD'S ADDED BY:

MD/ML

CHECKED BY:

Extracts Received By:



CKY incorporated Analytical Laboratories

Date: 06-08-1996
CKY Batch No.: 96F009

Attn: Ms. Missy Art

OHM
5335 Triangle Parkway Suite 450
Norcross, GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/04/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-048	F009-01	Soil	EPA 8080
CLJ100-CS-049	F009-02	Soil	EPA 8080
CLJ100-CS-050	F009-03	Soil	EPA 8080
CLJ100-CS050DP	F009-04	Soil	EPA 8080
CLJ100-CS-051	F009-05	Soil	EPA 8080
CLJ100-CS-052	F009-06	Soil	EPA 8080
CLJ100-CS-053	F009-07	Soil	EPA 8080
CLJ100-CS-054	F009-08	Soil	EPA 8080
CLJ100-CS-055	F009-09	Soil	EPA 8080
CLJ100-CS-056	F009-10	Soil	EPA 8080
CLJ100-CS-057	F009-11	Soil	EPA 8080
CLJ100-CS-058	F009-12	Soil	EPA 8080
CLJ100-CS-059	F009-13	Soil	EPA 8080
CLJ100-CS-060	F009-14	Soil	EPA 8080
CLJ100-CS060DP	F009-15	Soil	EPA 8080
CLJ100-CS-061	F009-16	Soil	EPA 8080
CLJ100-CS-062	F009-17	Soil	EPA 8080
CLJ100-CS-063	F009-18	Soil	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Pang

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CHAIN-OF-CUSTODY RECORD

96 F009 #13

166583

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS		
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.	CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR	
ITEM NO.	SAMPLE NUMBER	DATE	TIME				COMP	GRAB
Camp Lejeune		Camp Lejeune, N.C.		1-802	TCL Pesticides (A080)	TE 2' CRY NEBSA Level C.		
18319	Alan Whitt	(710) 451-2599	VAN				Marshburn	Jim Dunn / Alan Whitt
1	LS100-CS-048	6/1/96	0832					X
2	LS100-CS-049	6/1/96	0835		X	Confirmation Sample from AOC 17-20 Sidewall		
3	LS100-CS-050	6/1/96	0839		X	Confirmation Sample from AOC 1720 Sidewall		
4	LS100-CS-LE00P	6/1/96	0839		X	Duplicate Confirmation Sample from AOC 17-20 Sidewall		
5	LS100-CS-051	6/1/96	0843		X	Confirmation Sample from AOC 17-20 Sidewall		
6	LS100-CS-052	6/1/96	0845		X	Confirmation Sample from AOC 17-20 Sidewall		
7	LS100-CS-053	6/1/96	0850		X	Confirmation Sample from AOC 17-20 Sidewall		
8	LS100-CS-054	6/1/96	0853		X	Confirmation Sample from AOC 17-20 Sidewall		
9	LS100-CS-055	6/1/96	0856		X	Confirmation Sample from AOC 17-20 Sidewall		
10	LS100-CS-056	6/1/96	1907		X	Confirmation Sample from AOC 1-12 Sidewall		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Alan R. A...	FED EX 692149131Z	6/3/96		Samples sent To CKY Inc. 48 hour TAT. Please fax results To (910) 451-1809. Thanks Hold Samples until we contact you.
2			J.R. ...	6/4/96	10:00 AM	
3						
4						

SAMPLER'S SIGNATURE

Alan R. A...

CHAIN-OF-CUSTODY RECORD

96F009 H3

166584

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, NC.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VAnn Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)									
	<i>TCL Pesticides (9880)</i>									
	<i>T=2000</i>									
	REMARKS									

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	CL5100-CS-057	6/1/96	0910		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz	X	NSSA Level C Do not Analyze Do not Analyze
2	CL5100-CS-058	6/1/96	0913		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz	X	
3	CL5100-CS-059	6/1/96	0917		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz	X	
4	CL5100-CS-060	6/1/96	0920		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz	X	
5	CL5100-CS-060PP	6/1/96	0920		X	Duplicate Confirmation Sample from AOC 1-12 Sidewall	1-8oz	X	
6	CL5100-CS-061	6/1/96	0923		X	Confirmation Sample from AOC 1-12 Base	1-8oz	X	
7	CL5100-CS-062	6/1/96	0925		X	Confirmation Sample from AOC 1-12 Base	1-8oz	X	
8	CL5100-CS-063	6/1/96	0927		X	Confirmation Sample from AOC 1-12 Base	1-8oz	X	
9	CL5100-FB-601	6/1/96	0932		X	Field Blank	1-1L	X	
10	CL5100-FB-601	6/1/96	0937		X	Kissate Blank	1-1L	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Alan R. Whitt</i>	FED EX 6921491312	6/3/96		Samples sent to CKY Inc. 48 hour TAT. Please Fax results To (910) 451-1809. Thanks Do not call until we contact you.
2			<i>J. P. Lavel</i>	6/4/96	10:10 AM	
3						
4						

SAMPLER'S SIGNATURE *Alan R. Whitt*

ANALYSIS REQUEST FORM
(Additional)

CLIENT NAME: *OHM Camp Lejeune*
CKY Control No.: *96F009*
Date Requested: *6/5/96*
Requested by:

CKY Control No.	Analysis Requested	Comments
	<i>Analyze all</i>	
	<i>principles</i>	

per 6/6
6/5

SAMPLE RECEIPT FORM

CONTROL NO.	96F009
CLIENT	OHM
PROJECT	CAMP LEJUNG

DATE	06-04-96
TIME	6:00 AM
RECIPIENT	I. PATEL

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT	✓				
SHIPPED/AIRBILL NO	FEDGX APTN: 6921491312 SEE AIRBILL				

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED	<input checked="" type="checkbox"/> SEALED	<input type="checkbox"/> NOT SEALED	<input type="checkbox"/> NO CONTAINER
CONTAINER:	INSIDE TEMPERATURE: 2° C		CUSTODY SEAL		LOCATION
<input checked="" type="checkbox"/> COOLER	PACKAGING	TYPE	SUFFICIENCY	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED
<input type="checkbox"/> BOX	INSULATION:		OK	NAME:	SEE COC
<input type="checkbox"/> OTHER:	ICE/COOLANT:	REGULAR	↓	DATE:	
	PACKING MATERIAL:	BUBBLEPAC	↓	TIME:	
					FRONT CLOSURE 2

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> ENCLOSED	<input type="checkbox"/> HANDCARRIED	<input type="checkbox"/> FAXED	<input type="checkbox"/> MAILED
--	---------------------------------	--	--------------------------------------	--------------------------------	---------------------------------

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY				
SAMPLE CUSTODY SEAL	EVERY SAMPLE	NONE	/				
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK					
SAMPLE AMOUNT	ENOUGH						
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT						
HEADSPACE/BUBBLES	ZERO/NONE	↓					
SAMPLE LABEL INFORMATION	SUFFICIENT						
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT	SEE BELOW					
SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER
INDIVIDUAL SAMPLE CONTAINER:	NONE	SEALED PLASTIC BAG	CAN	OTHER(SPECIFY):			

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION
-20	CLJ100-FB-601	ID ON LABEL IS CLJ100-RB-601 DATE & TIME IS OK	should be RB for lineate.

CLIENT SERVICES COPY RECEIVED BY	6/4 central	DATE	TIME
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CKY INC., ANALYTICAL LABORATORIES, 630 Maple Ave., Torrance, Calif. 90503 Tel. (310) 618-8889 Fax: (310) 618-0818



USE THIS AIRBILL FOR DANGEROUS GOODS SHIPMENTS ONLY WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII.
USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS.
QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

6921491312

6921491312

96F009

6-4-96

10:00 AM

RECIPIENT'S COPY

Date: 6-3-96

From (Your Name) Please Print: AARON R. GRAN
Your Phone Number (Very Important): (910) 451-7999
To (Recipient's Name) Please Print: KAM PENG
Recipient's Phone Number (Very Important): (310) 614-8221

Company: [Blank] Department/Floor No.: [Blank] Company: CKY INC. Department/Floor No.: [Blank]

Street Address: [Blank] Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.): 630 Maple Avenue

City: [Blank] State: [Blank] ZIP Required: [Blank] City: Torrance State: CA ZIP Required: 90503

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.): 18319

IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations): [Blank]

PAYMENT: Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card

Cash Check

SERVICES (Check services one box)		DELIVERY AND SPECIAL HANDLING (Check services required)		PACKAGES		YOUR DECLARED VALUE (See note)		Emp. No.		Date		Federal Express Use	
<input checked="" type="checkbox"/> Priority Overnight (Delivery by next business morning) 1N <input checked="" type="checkbox"/> Standard Overnight (Delivery by next business afternoon No Saturday Delivery) 51 <input type="checkbox"/> <input type="checkbox"/> Economy Two-Day (Delivery by second business day) 30 <input type="checkbox"/> <input type="checkbox"/> Government Overnight (Restricted for authorized users only) 41 <input type="checkbox"/>	<input type="checkbox"/> Weekday Service 1 <input type="checkbox"/> HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section 4H) 2 <input checked="" type="checkbox"/> DELIVER WEEKDAY <input type="checkbox"/> Saturday Service 31 <input type="checkbox"/> HOLD AT FEDEX LOCATION SATURDAY (Fill in Section 4H) 3 <input type="checkbox"/> DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 <input type="checkbox"/> SATURDAY PICK-UP (Extra charge)	<input checked="" type="checkbox"/> DANGEROUS GOODS (Extra charge) 4 <input type="checkbox"/> DRY ICE 6 <input type="checkbox"/> DANGEROUS GOODS Shipper's Declaration not required Dry wt. 9.121165 kg 304 <input type="checkbox"/> HOLIDAY DELIVERY (if offered) (Extra charge) 12 <input type="checkbox"/>	1 043 1 043 DIM SHIPMENT (Chargeable Weight) L x W x H 1 <input type="checkbox"/> Regular Stop 3 <input type="checkbox"/> Drop Box 2 <input type="checkbox"/> On-Call Stop 5 <input type="checkbox"/> Station	Total Total Total 1 043 DIM SHIPMENT (Chargeable Weight) L x W x H 1 <input type="checkbox"/> Regular Stop 3 <input type="checkbox"/> Drop Box 2 <input type="checkbox"/> On-Call Stop 5 <input type="checkbox"/> Station	<input type="checkbox"/> Cash Received <input type="checkbox"/> Return Shipment <input type="checkbox"/> Third Party <input type="checkbox"/> Chg. To Del. <input type="checkbox"/> Chg. To Hold Street Address City State Zip Received By: Date/Time Received FedEx Employee Number	<input type="checkbox"/> Cash Received <input type="checkbox"/> Return Shipment <input type="checkbox"/> Third Party <input type="checkbox"/> Chg. To Del. <input type="checkbox"/> Chg. To Hold Street Address City State Zip Received By: Date/Time Received FedEx Employee Number	Base Charges Declared Value Charge Other 1 Other 2 Total Charges	REVISION DATE 11/94 Part # 146187/146188 FORMAT #219 GBFE 219 © 1994 FEDEX PRINTED IN U.S.A.	SIGNATURE RELEASE UNAVAILABLE				

6921491312 Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non applicable)
 PASSENGER AND CARGO AIRCRAFT
 CARGO AIRCRAFT ONLY

Airport of Departure: [Blank] Airport of Destination: [Blank]

Shipment type: (delete non-applicable)
 NON-RADIOACTIVE RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS							
Dangerous Goods Identification							
Proper Shipping Name	Class or Division	UN or ID No.	Packing Group	Subsidiary Risk	Quantity and type of packing	Packing Inst.	Authorization
Other Regulated substances	6.03	2D 3027		N/A	1 plastic container w/ 18 - 250ML JUSTARS 2 - 1L JARS 6.5 L Total	106	

Additional Handling Information: [Blank]

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations.

Name/Title of Signatory: Aaron R. Gran / Receiver
Place and Date: [Blank]
Signature: [Blank] (see warning above)

Emergency Telephone Number (Required for US Origin or Destination Shipments): [Blank]

IF ACCEPTABLE FOR PASSENGER AIRCRAFT, THIS SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN, OR INCIDENT TO, RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT.

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F009

JUNE 08, 1996

CASE NARRATIVE

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
SDG: 96F009

CHLORINATED PESTICIDES

Eighteen (18) soil samples were received on 06/04/96 for Pesticide analysis in accordance with SW846.

I. **Holding Time**

All samples were extracted and analyzed within the holding time criteria.

II. **Blank**

A method blank was free of contamination.

III. **Matrix Spike/Matrix Spike Duplicate**

All recoveries and RPDs were within the QC limits.

IV. **Lab Control Sample**

All results were within the control limits.

V. **Surrogate Recovery**

All surrogate recoveries were within the control limits.

VI. **Instrument Performance and Calibration**

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. Rtx35 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. **Sample Analysis**

All sample analyses met the project specific QC requirements. All results were confirmed by the second column Rtx5.

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-048           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-01                 MATRIX:         SOIL
% MOISTURE:  14.3                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.7
beta-BHC	ND	23.3
delta-BHC	ND	29.2
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	233
Heptachlor Epoxide	ND	583
Methoxychlor	ND	1170
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-049            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-02                 MATRIX:         SOIL
% MOISTURE: 13.3                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23.1
delta-BHC	ND	28.8
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	ND	115
4,4'-DDT	ND	115
Dieldrin	ND	23.1
Endosulfan I	ND	19.6
Endosulfan II	ND	231
Endosulfan Sulfate	ND	23.1
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	231
Heptachlor Epoxide	ND	577
Methoxychlor	ND	1150
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-050           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-03                 MATRIX:         SOIL
% MOISTURE:  6.8                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	62	21.5
Endosulfan I	ND	18.2
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	94	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS050DP          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-04                 MATRIX:         SOIL
% MOISTURE:  17.9                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.7
alpha-BHC	ND	12.2
beta-BHC	ND	24.4
delta-BHC	ND	30.5
gamma-BHC (Lindane)	ND	20.7
alpha-Chlordane	ND	122
gamma-Chlordane	ND	122
4,4'-DDD	ND	122
4,4'-DDE	ND	122
4,4'-DDT	ND	122
Dieldrin	100	24.4
Endosulfan I	ND	20.7
Endosulfan II	ND	244
Endosulfan Sulfate	ND	24.4
Endrin	ND	122
Endrin aldehyde	ND	12.2
Heptachlor	ND	244
Heptachlor Epoxide	ND	609
Methoxychlor	ND	1220
Toxaphene	ND	2440
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	76	20-150
Decachlorobiphenyl	76	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-051          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-05                MATRIX:         SOIL
% MOISTURE:  14.2                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.7
beta-BHC	ND	23.3
delta-BHC	ND	29.1
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	233
Heptachlor Epoxide	ND	583
Methoxychlor	ND	1170
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	94	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-052           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-06                 MATRIX:         SOIL
% MOISTURE:  6.7                     DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-053           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-07                MATRIX:         SOIL
% MOISTURE:  5.1                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.9
alpha-BHC	ND	10.5
beta-BHC	ND	21.1
delta-BHC	ND	26.3
gamma-BHC (Lindane)	ND	17.9
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21.1
Endosulfan I	ND	17.9
Endosulfan II	ND	211
Endosulfan Sulfate	ND	21.1
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	211
Heptachlor Epoxide	ND	527
Methoxychlor	ND	1050
Toxaphene	ND	2110
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	99	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.: 96F009                    DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-054            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-08                 MATRIX:         SOIL
% MOISTURE: 7.7                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.7
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.7
Endosulfan I	ND	18.4
Endosulfan II	ND	217
Endosulfan Sulfate	ND	21.7
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	217
Heptachlor Epoxide	ND	542
Methoxychlor	ND	1080
Toxaphene	ND	2170

SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-055           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-09                 MATRIX:         SOIL
% MOISTURE:  7.4                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	540
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-056          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-10                MATRIX:         SOIL
% MOISTURE:  13.2                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23
delta-BHC	ND	28.8
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	ND	115
4,4'-DDT	ND	115
Dieldrin	ND	23
Endosulfan I	ND	19.6
Endosulfan II	ND	230
Endosulfan Sulfate	ND	23
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	230
Heptachlor Epoxide	ND	576
Methoxychlor	ND	1150
Toxaphene	ND	2300
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	102	20-150
Decachlorobiphenyl	101	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-057           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-11                 MATRIX:         SOIL
% MOISTURE:  8.1                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.5
alpha-BHC	ND	10.9
beta-BHC	ND	21.8
delta-BHC	ND	27.2
gamma-BHC (Lindane)	ND	18.5
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	21.8
Endosulfan I	ND	18.5
Endosulfan II	ND	218
Endosulfan Sulfate	ND	21.8
Endrin	ND	109
Endrin aldehyde	ND	10.9
Heptachlor	ND	218
Heptachlor Epoxide	ND	544
Methoxychlor	ND	1090
Toxaphene	ND	2180
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	95	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-058          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-12                MATRIX:         SOIL
% MOISTURE:  4.6                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.8
alpha-BHC	ND	10.5
beta-BHC	ND	21
delta-BHC	ND	26.2
gamma-BHC (Lindane)	ND	17.8
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21
Endosulfan I	ND	17.8
Endosulfan II	ND	210
Endosulfan Sulfate	ND	21
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	210
Heptachlor Epoxide	ND	524
Methoxychlor	ND	1050
Toxaphene	ND	2100
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-059           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-13                 MATRIX:         SOIL
% MOISTURE:  4.6                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.8
alpha-BHC	ND	10.5
beta-BHC	ND	21
delta-BHC	ND	26.2
gamma-BHC (Lindane)	ND	17.8
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21
Endosulfan I	ND	17.8
Endosulfan II	ND	210
Endosulfan Sulfate	ND	21
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	210
Heptachlor Epoxide	ND	524
Methoxychlor	ND	1050
Toxaphene	ND	2100
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	98	20-150
Decachlorobiphenyl	98	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-060          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-14                MATRIX:         SOIL
% MOISTURE:  10.4                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19
alpha-BHC	ND	11.2
beta-BHC	ND	22.3
delta-BHC	ND	27.9
gamma-BHC (Lindane)	ND	19
alpha-Chlordane	ND	112
gamma-Chlordane	ND	112
4,4'-DDD	ND	112
4,4'-DDE	ND	112
4,4'-DDT	ND	112
Dieldrin	ND	22.3
Endosulfan I	ND	19
Endosulfan II	ND	223
Endosulfan Sulfate	ND	22.3
Endrin	ND	112
Endrin aldehyde	ND	11.2
Heptachlor	ND	223
Heptachlor Epoxide	ND	558
Methoxychlor	ND	1120
Toxaphene	ND	2230
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	97	20-150
Decachlorobiphenyl	95	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS060DP          DATE ANALYZED:  06/06/96
CONTROL NO.: F009-15                 MATRIX:         SOIL
% MOISTURE:  4.0                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.7
alpha-BHC	ND	10.4
beta-BHC	ND	20.8
delta-BHC	ND	26
gamma-BHC (Lindane)	ND	17.7
alpha-Chlordane	ND	104
gamma-Chlordane	ND	104
4,4'-DDD	ND	104
4,4'-DDE	ND	104
4,4'-DDT	ND	104
Dieldrin	ND	20.8
Endosulfan I	ND	17.7
Endosulfan II	ND	208
Endosulfan Sulfate	ND	20.8
Endrin	ND	104
Endrin aldehyde	ND	10.4
Heptachlor	ND	208
Heptachlor Epoxide	ND	521
Methoxychlor	ND	1040
Toxaphene	ND	2080
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	94	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.: 96F009                    DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-061            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-16                 MATRIX:         SOIL
% MOISTURE: 6.7                       DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	89	20-150
Decachlorobiphenyl	93	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/04/96
BATCH NO.:   96F009                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-062           DATE ANALYZED:  06/06/96
CONTROL NO.: F009-17                 MATRIX:         SOIL
% MOISTURE:  4.4                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.8
alpha-BHC	ND	10.5
beta-BHC	ND	20.9
delta-BHC	ND	26.2
gamma-BHC (Lindane)	ND	17.8
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	39	20.9
Endosulfan I	ND	17.8
Endosulfan II	ND	209
Endosulfan Sulfate	ND	20.9
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	209
Heptachlor Epoxide	ND	523
Methoxychlor	ND	1050
Toxaphene	ND	2090
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	96	20-150
Decachlorobiphenyl	101	20-150

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/01/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/04/96
BATCH NO.:  96F009                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-063            DATE ANALYZED:  06/06/96
CONTROL NO.: F009-18                 MATRIX:         SOIL
% MOISTURE: 12.1                      DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.8
Endosulfan I	ND	19.3
Endosulfan II	ND	228
Endosulfan Sulfate	ND	22.8
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	228
Heptachlor Epoxide	ND	569
Methoxychlor	ND	1140
Toxaphene	ND	2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	92	20-150
Decachlorobiphenyl	96	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:   NA
BATCH NO.:  96F009                   DATE EXTRACTED:  06/05/96
SAMPLE ID:  MBLK1S                   DATE ANALYZED:   06/06/96
CONTROL NO.: CPF007SB                MATRIX:          SOIL
% MOISTURE: NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	103	20-150
Decachlorobiphenyl	77	20-150

=====
RL: Reporting Limit

CKY QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
METHOD: EPA 8080
MATRIX: SOIL
% MOISTURE: NA

BATCH NO.: 96F009 DATE RECEIVED: NA
SAMPLE ID: LCS1S DATE EXTRACTED: 06/05/96
CONTROL NO.: CPF007SL DATE ANALYZED: 06/06/96
ACCESSION: 96F009

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT (%)
Aldrin	ND	167.00	186.00	111	47-116
alpha-Chlordane	ND	167.00	189.00	113	45-119
gamma-Chlordane	ND	167.00	180.00	108	45-119
4,4'-DDD	ND	333.00	351.00	105	48-136
4,4'-DDT	ND	333.00	365.00	110	34-143
Dieldrin	ND	333.00	317.00	95	42-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	402.00	100	20-150
Decachlorobiphenyl	667.00	528.00	79	20-150

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 14.3

BATCH NO.: 96F009
 SAMPLE ID: CLJ100-CS-048
 CONTROL NO.: F009-01

DATE RECEIVED: 06/04/96
 DATE EXTRACTED: 06/05/96
 DATE ANALYZED: 06/06/96

ACCESSION: 96F009

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	195.00	211.00	108	195.00	210.00	108	1	20-170	50
alpha-Chlordane	ND	195.00	244.00	125	195.00	247.00	127	1	20-170	50
gamma-Chlordane	ND	195.00	195.00	100	195.00	203.00	104	4	20-170	50
4,4'-DDD	ND	389.00	427.00	110	389.00	432.00	111	1	20-170	50
4,4'-DDT	ND	389.00	495.00	127	389.00	502.00	129	1	20-170	50
Dieldrin	ND	389.00	358.00	92	389.00	357.00	92	0	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	467.00	455.00	98	467.00	449.00	96	20-150
Decachlorobiphenyl	778.00	679.00	87	778.00	684.00	88	20-150

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID: .53mm
 LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41
 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08
 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31
 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59
 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16138	17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
dieldrin	10.0	17776	18480	17738	16977	15492	17293	7
DDE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12298	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11430	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16608	15132	13136	11773	15132	19

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF04-59 Col: RTX-5 %breakdown	File: TF04-59 Col: RTX-35 %breakdown
DDT	8.2	0
Endrin	6.7	0

	File: SF04-78 Col: RTX-5 %breakdown	File: TF04-78 Col: RTX-35 %breakdown
DDT	7.5	0
Endrin	2.4	0.9

	File: SF04-96 Col: RTX-5 %breakdown	File: TF04-95 Col: RTX-35 %breakdown
DDT	0.5	0
Endrin	5.5	1.2

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF04-60 06-05-96 23:49:55 TF04-61 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.7	8
gamma-BHC	20.0	19075	21.4	7
beta-BHC	20.0	7454	22.5	13
Heptachlor	20.0	17057	20.9	4
delta-BHC	20.0	14510	22.9	14
Aldrin	20.0	17944	20.1	0
Heptachlor Epoxide	20.0	17354	19.3	3
gamma-Chlordane	20.0	18498	19.5	3
Endosulfan I	20.0	17474	19.6	2
alpha-Chlordane	20.0	17987	19.5	3
Dieldrin	40.0	17293	39.1	2
DDE	40.0	14912	41.8	4
Endrin	40.0	13865	42.0	5
Endosulfan II	40.0	14787	38.5	4
	40.0	11923	42.4	6
Endrin Aldehyde	40.0	12267	38.3	4
DDT	40.0	12385	40.3	1
Endosulfan Sulfate	40.0	14142	37.9	5
Endrin Ketone	40.0	15832	37.7	6
Methoxychlor	200.0	4708	206.1	3
TCX	20.0	14832	20.5	3
DCB	40.0	15132	35.9	10

CONTINUE CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID : .53mm
 Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
 Mid Con Cont LFID & Datime: TF04-79 06-06-96 11:26:47 TF04-80 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	21.2	6
gamma-BHC	20.0	19075	21.1	6
beta-BHC	20.0	7454	22.8	14
Heptachlor	20.0	17057	21.8	9
delta-BHC	20.0	14510	21.5	8
Aldrin	20.0	17944	20.2	1
Heptachlor Epoxide	20.0	17354	19.6	2
gamma-Chlordane	20.0	18498	19.8	1
Endosulfan I	20.0	17474	19.5	2
alpha-Chlordane	20.0	17987	19.8	1
Dieldrin	40.0	17293	38.7	3
Endosulfan I	40.0	14912	42.2	6
Endosulfan I	40.0	13865	41.7	4
Endosulfan II	40.0	14787	39.2	2
DDD	40.0	11923	42.5	6
Endrin Aldehyde	40.0	12267	38.9	3
DDT	40.0	12385	42.9	7
Endosulfan Sulfate	40.0	14142	38.6	4
Endrin Ketone	40.0	15832	38.1	5
Methoxychlor	200.0	4708	219.1	10
TCX	20.0	14832	20.9	4
DCB	40.0	15132	34.8	13

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF04-99 06-06-96 23:41:37 TF04-100 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%RSD
alpha-BHC	20.0	19791	22.0	10
gamma-BHC	20.0	19075	21.9	9
beta-BHC	20.0	7454	22.9	15
Heptachlor	20.0	17057	22.0	10
delta-BHC	20.0	14510	22.1	11
Aldrin	20.0	17944	20.3	2
Heptachlor Epoxide	20.0	17354	19.5	2
gamma-Chlordane	20.0	18498	19.9	1
Endosulfan I	20.0	17474	20.1	0
alpha-Chlordane	20.0	17987	19.9	1
Dieldrin	40.0	17293	39.8	1
DDE	40.0	14912	42.1	5
rin	40.0	13865	42.4	6
osulfan II	40.0	14787	39.0	2
DDD	40.0	11923	43.3	8
Endrin Aldehyde	40.0	12267	38.3	4
DDT	40.0	12385	42.2	5
Endosulfan Sulfate	40.0	14142	38.3	4
Endrin Ketone	40.0	15832	38.2	4
Methoxychlor	200.0	4708	217.4	9
TCX	20.0	14832	21.1	6
DCB	40.0	15132	36.0	10

48	96E080-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
49	96E080-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
50	96E080-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
51	96E080-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
52	96E080-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
53	96E080-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
54	96E080-11T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
55	96E080-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
56	96E080-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
57	96E080-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
58	96E080-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
59	PEM04/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
60	DCC4-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
61	DCC4-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
62	DCC1-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
63	96E080-09T 5X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
64	96E080-10T 10X	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
65	CPF006SB	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
66	CPF006SL	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
67	CPF006SC	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
68	96F013-12	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
69	96F013-12M	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
70	96F013-12S	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
71	CPF007SB	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
72	CPF007SL	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
73	CPF007SC	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
74	96F009-01	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
75	96F009-01M	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
76	96F009-01S	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
77	96F009-02	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
78	PEM05/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
79	DCC5-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
80	DCC5-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
81	DCC2-1660/10-1-302	1660F01	SF04-	1.0000	1.0000	1.0000	1.0000
82	96F009-03	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
83	96F009-04	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
84	96F009-05	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
85	96F009-06	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
86	96F009-07	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
87	96F009-08	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
88	96F009-09	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
89	96F009-10	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
90	96F009-11	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
91	96F009-12	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
92	96F009-13	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
93	96F009-14	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
94	96F009-15	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
95	96F009-16	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
96	96F009-17	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
97	96F009-18	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
98	PEM06/10C-1-20-2	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
99	DCC6-MIXA/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000
100	DCC6-MIXB/10-1-242	PEST6	SF04-	1.0000	1.0000	1.0000	1.0000

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

OHM / Camp Lejeune
SOIL

METHOD

8080

PAGE #

98

DATE EXTRACTED

6/5/96

1050 DATE COMPLETED

6/5/96 16

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/M/S)	NOTES
CPFO07-SB			10		
SL					
SC					
F009-01	3.0				
1M					
1S					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISH	F

REAGENT	LOT #
Na2SO4	MD 4524-06 957496
CH2CL2	36079
HEXANE	96230

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE MIX A	S10C-01-0-34-02	0.40
SURROGATE ID	S10C-01-0-35-02	2.0
Spike Mix B	S10C-01-0-35-01	0.40

SDG #	EXTRACT LOCATION

COMMENTS:

PREPARED BY:

MD

STD'S ADDED BY:

MD / ML

CHECKED BY:

Extracts Received By:



CKY incorporated Analytical Laboratories

Date: 06-08-1996
CKY Batch No.: 96F014

Attn: Ms. Missy Art

OHM
5335 Triangle Parkway Suite 450
Norcross, GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

Enclosed is the Laboratory report for samples received on 06/05/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-064	F014-01	Soil	EPA 8080
CLJ100-CS-065	F014-02	Soil	EPA 8080
CLJ100-CS-066	F014-03	Soil	EPA 8080
CLJ100-CS-068	F014-05	Soil	EPA 8080
CLJ100-CS-069	F014-06	Soil	EPA 8080
CLJ100-CS-071	F014-09	Soil	EPA 8080
CLJ100-CS-073	F014-11	Soil	EPA 8080
CLJ100-CS-074	F014-12	Soil	EPA 8080
CLJ100-CS-075	F014-13	Soil	EPA 8080
CLJ100-CS-077	F014-15	Soil	EPA 8080
CLJ100-CS-078	F014-16	Soil	EPA 8080
CLJ100-CS-079	F014-17	Soil	EPA 8080
CLJ100-FB-604	F014-18	Water	EPA 8080
CLJ100-RB-604	F014-19	Water	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,

Kam Pang

Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CHAIN-OF-CUSTODY RECORD

96F014 H4

166587

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
	<i>TCL Pesticides (8080)</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
1	<i>CS100-CS-064</i>	<i>6/4/96</i>	<i>0729</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 1-12 Base</i>
2	<i>CS100-CS-065</i>	<i>6/4/96</i>	<i>0624</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 39-42 Base</i>
3	<i>CS100-CS-066</i>	<i>6/4/96</i>	<i>0628</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 39-42 sidewall</i>
4	<i>CS100-CS-067</i>	<i>6/4/96</i>	<i>0633</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 Base</i>
5	<i>CS100-CS-068</i>	<i>6/4/96</i>	<i>0637</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 Base</i>
6	<i>CS100-CS-069</i>	<i>6/4/96</i>	<i>0643</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 Base</i>
7	<i>CS100-CS-070</i>	<i>6/4/96</i>	<i>0651</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 sidewall</i>
8	<i>CS100-CS-070sp</i>	<i>6/4/96</i>	<i>0651</i>		<input checked="" type="checkbox"/>	<i>Duplicate Confirmation Sample from AOC 33-38 sidewall</i>
9	<i>CS100-CS-071</i>	<i>6/4/96</i>	<i>0655</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 sidewall</i>
10	<i>CS100-CS-072</i>	<i>6/4/96</i>	<i>0701</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 sidewall</i>

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	<i>1-10</i>	<i>Coran R. Atzorn</i>	<i>FED-EX 6921491334</i>	<i>6/4/96</i>	<i>1700</i>
2			<i>[Signature]</i>	<i>6/5/96</i>	<i>16:00</i>
3					
4					

REMARKS

Samples Sent To CKY Inc. 48 hour T.A.T. Please Fax results To (910) 451-1809. Thanks

Hold samples until we contact you.

SAMPLER'S SIGNATURE *Coran R. Atzorn*



CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019
Field Technical Services
Rev. 08/89

76 F014 H4

166588

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VAnn Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
								/										
1	CLJ100-CS-073	6/4/96	0707		X	Confirmation Sample from AOC 33-38s. down 11	1-802	/										NEESA Level 'C.'
2	CLJ100-CS-074	6/4/96	0712		X	Confirmation Sample from AOC #9-32 Base	1-802	/										
3	CLJ100-CS-075	6/4/96	0733		X	Confirmation Sample from AOC 1-12 Base	1-802	/										
4	CLJ100-CS-076	6/4/96	0738		X	Confirmation Sample from AOC 1-12 Base	1-802	/										
5	CLJ100-CS-077	6/4/96	0742		X	Confirmation Sample from AOC 1-12 Base	1-802	/										
6	CLJ100-CS-078	6/4/96	0746		X	Confirmation Sample from AOC 1-12 Base	1-802	/										
7	CLJ100-CS-079	6/4/96	0749		X	Confirmation Sample from AOC 1-12 Base	1-802	/										
8	CLJ100-FB-604	6/4/96	0754		X	Field Blank	1-802	/										
9	CLJ100-RB-604	6/4/96	0759		X	Rinsate Blank	1-802	/										
10								/										

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
						Samples sent to CKY Inc.

CORRECTIVE ACTION FORM
(CKY Sample Receipt Discrepancy)

Client	OHM - Camp Lejeune
CKY Batch No.	96FO14
Control No.	
Method	8080
Matrix	Dr

1) Nature of Discrepancy:
Modify COC per Carl Rampel.

2) Corrective Action:
Do not analyze the following FO14-4, FO14-7
FO14-8, FO14-10, FO14-14

3) Result of Corrective Action:
Plse. route to chemists.

Approved by: Carroll Date: 6/5/96.

4) Further Corrective Action Taken? Yes No Date: _____

xll 6/5
19 6/5

Approved by: _____ Date: _____

SAMPLE RECEIPT FORM

CONTROL NO.	96F014
CLIENT	OHM
PROJECT	CAMP LEJEUNE

DATE	06-05-96
TIME	10:01 AM
RECIPIENT	F. PATEL

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT	<input checked="" type="checkbox"/>				
SHIPPED/AIRBILL NO	FEDEX APTN: 89214913 34 SEE AIRBILL				

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED	<input checked="" type="checkbox"/> SEALED	<input type="checkbox"/> NOT SEALED	NO CONTAINER
CONTAINER:	INSIDE TEMPERATURE: 2° C		CUSTODY SEAL		LOCATION
<input checked="" type="checkbox"/> COOLER	PACKAGING	TYPE	SUFFICIENCY	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED
BOX	INSULATION:		OK	NAME:	SEE COOL
<input type="checkbox"/> OTHER:	ICE/COOLANT:	REGULAR	1	DATE:	
	PACKING MATERIAL:	BUBBLE PAK	1	TIME:	

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> ENCLOSED	<input type="checkbox"/> HANDCARRIED	<input type="checkbox"/> FAXED	<input type="checkbox"/> MAILED
--	---------------------------------	--	--------------------------------------	--------------------------------	---------------------------------

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY				
SAMPLE CUSTODY SEAL	EVERY SAMPLE	NONE	/				
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK					
SAMPLE AMOUNT	ENOUGH						
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT						
HEADSPACE/BUBBLES	ZERO/NONE						
SAMPLE LABEL INFORMATION	SUFFICIENT						
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT						
SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER
INDIVIDUAL SAMPLE CONTAINER:	NONE	SEALED PLASTIC BAG	CAN	OTHER(SPECIFY):	BUBBLE PAK		

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION
-18	FIELD BLANK	REC'D 1L GLASS BOTTLE (WATER)	
-19	RINSEATE BLANK	" " " " (WATER)	
/			
/			
/			
/			
/			
/			
/			
/			
CLIENT SERVICES COPY RECEIVED BY		DATE	TIME
Patel 6/5			

CKY INC., ANALYTICAL LABORATORIES, 630 Maple Ave., Torrance, Calif. 90503 Tel. (310) 618-8889 Fax: (310) 618-0818

FedEx

USE THIS AIRBILL FOR DANGEROUS GOODS SHIPMENTS ONLY WITHIN THE CONTINENTAL U.S.A., ALASKA AND HAWAII. USE THE INTERNATIONAL AIR WAYBILL FOR SHIPMENTS TO PUERTO RICO AND ALL NON U.S. LOCATIONS. QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL PACKAGE TRACKING NUMBER

6921491334

6921491334

96F014

6-5-96 WISAM ✓

RECIPIENT'S COPY

Date 6-4-96

From (Your Name) Please Print Aaron R GRAN Your Phone Number (Very Important) (910) 451-2599 To (Recipient's Name) Please Print Kam Pong Recipient's Phone Number (Very Important) (310) 618-8889

Company CHM REMEDIATION SERVICES Department/Floor No. Street Address CAMP LEJEUNE/ HAWKINS BLVD City Jacksonville State NC ZIP Required 25542

Company CKY INC Department/Floor No. Exact Street Address (We Cannot Deliver to P.O. Boxes or P.O. Zip Codes.) 630 Maple Avenue City Torrance State CA ZIP Required 90503

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on invoice.) 18319 IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations) Street Address City State ZIP Required

PAYMENT: 1 Bill Sender 2 Bill Recipient's FedEx Acct. No. 3 Bill 3rd Party FedEx Acct. No. 4 Bill Credit Card 5 Cash Check

SERVICES (Check only one box) DELIVERY AND SPECIAL HANDLING (Check services required) PACKAGES WEIGHT In Pounds Only YOUR DECLARED VALUE (See page)

Priority Overnight (Delivers by next business morning) 10 Standard Overnight (Delivers by next business afternoon. No Saturday Delivery) 51 Economy Two-Day (Delivers by second business day) 30 Government Overnight (Reserved for authorized users only) 41

Weekday Service 1 HOLD AT FEDEX LOCATION WEEKDAY (Fill in Section H) 2 DELIVER WEEKDAY Saturday Service 31 HOLD AT FEDEX LOCATION SATURDAY (Fill in Section H) 3 DELIVER SATURDAY (Extra charge) (Not available to all locations) 9 SATURDAY PICK-UP (Extra charge)

Total Total Total DIM SHIPMENT (Chargeable Weight) L x W x H

Emp. No. Date Federal Express Use Cash Received Return Shipment Third Party Chg. To Del. Chg. To Hold Street Address City State Zip Received By: X Date/Time Received FedEx Employee Number

Freight Service (for packages over 150 lbs.) 70 OVERNIGHT FREIGHT 80 TWO-DAY FREIGHT

Special Handling 4 DANGEROUS GOODS (Extra charge) 6 DRY ICE Dangerous Goods Shipper's Declaration not required Dry Ice: 9 UN 1845 X kg. 904

Received At 1 Regular Stop 3 Drop Box 2 On-Call Stop 4 B.S.C. 5 Station

REVISION DATE 11/94 Part # 146187/146188 FORMAT #219 GBFE

INSTRUCTIONS (Mark appropriate boxes) Dangerous Goods as per attached Shipper's Declaration Dangerous Goods Shipper's Declaration not required Cargo Aircraft only

12 HOLIDAY DELIVERY (if offered) (Extra charge)

SIGNATURE RELEASE UNAVAILABLE

6921491334

Page 1 of 1 Pages

Two completed and signed copies of this Declaration must be handed to the operator.

WARNING

Failure to comply in all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties. This Declaration must not, in any circumstances, be completed and/or signed by a consolidator, a forwarder or an IATA cargo agent.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non applicable) PASSENGER AND CARGO AIRCRAFT AIRCRAFT AIRCRAFT ONLY Airport of Departure Airport of Destination:

Shipment type: (delete non-applicable) NON-RADIOACTIVE RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Table with columns: Proper Shipping Name, Class or Division, UN or ID No., Packing Group, Subsidiary Risk, Quantity and type of packing, Packing Inst., Authorization. Content: Other Regulated Substances, class 9, UN 1845, N/A, 1 plastic container w/ 17 - 250 ml glass jars, 2 - 12 glass jars, 6.25 L Total

Additional Handling Information

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked, and labeled, and are in all respects in the proper condition for transport by air according to the applicable International and National Governmental Regulations. Name/Title of Signatory Aaron R GRAN/Company Tech. Place and Date Emergency Telephone Number (Required for US Origin or Destination Shipments) 1-800-999-1717

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F014

JUNE 08, 1996

CASE NARRATIVE

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
SDG: 96F014

CHLORINATED PESTICIDES

Eighteen (18) soil and one (1) water samples were received on 06/05/96 for Pesticide analysis in accordance with SW846. Samples CLJ100-CS-067, -070, -070DP, -072, -076, and CLJ-FB-604 were canceled.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

Both soil and water method blanks were free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs for soil matrix were within the QC limits. There was no MS/MSD for water matrix, LCS/LCSD were analyzed as precision QC samples.

IV. Lab Control Sample/Lab Control Duplicate

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits. Rtx35 was a quantitation column. All continue calibrations in the quantitation column were checked at 12 hour interval and all recoveries were within the QC limits. All DDT and Endrin breakdown were within QC limits.

VII. Sample Analysis

All sample analyses met QC requirements. All results were confirmed by the second column Rtx5.

SAMPLE RESULTS

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-064           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-01                MATRIX:         SOIL
% MOISTURE:  3.4                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.6
alpha-BHC	ND	10.4
beta-BHC	ND	20.7
delta-BHC	ND	25.9
gamma-BHC (Lindane)	ND	17.6
alpha-Chlordane	ND	104
gamma-Chlordane	ND	104
4,4'-DDD	ND	104
4,4'-DDE	ND	104
4,4'-DDT	ND	104
Dieldrin	ND	20.7
Endosulfan I	ND	17.6
Endosulfan II	ND	207
Endosulfan Sulfate	ND	20.7
Endrin	ND	104
Endrin aldehyde	ND	10.4
Heptachlor	ND	207
Heptachlor Epoxide	ND	518
Methoxychlor	ND	1040
Toxaphene	ND	2070
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	87	20-150
Decachlorobiphenyl	85	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-065          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-02                MATRIX:         SOIL
% MOISTURE:  13.9                    DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.2
delta-BHC	ND	29
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	116
Endosulfan I	ND	23.2
Endosulfan II	ND	19.7
Endosulfan Sulfate	ND	232
Endrin	ND	23.2
Endrin aldehyde	ND	116
Heptachlor	ND	11.6
Heptachlor Epoxide	ND	232
Methoxychlor	ND	581
Toxaphene	ND	1160
		2320
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	92	20-150
Decachlorobiphenyl	85	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:    18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:  96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-066           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-03                MATRIX:         SOIL
% MOISTURE: 13.5                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	220	116
gamma-Chlordane	230	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	116
Endosulfan I	ND	23.1
Endosulfan II	ND	19.7
Endosulfan Sulfate	ND	231
Endrin	ND	23.1
Endrin aldehyde	ND	116
Heptachlor	ND	11.6
Heptachlor Epoxide	ND	231
Methoxychlor	ND	578
Toxaphene	ND	1160
		2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	89	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

005

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-068           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-05                 MATRIX:         SOIL
% MOISTURE:  14.3                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.7
beta-BHC	ND	23.3
delta-BHC	ND	29.2
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	233
Heptachlor Epoxide	ND	583
Methoxychlor	ND	1170
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	85	20-150
Decachlorobiphenyl	90	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-069          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-06                MATRIX:         SOIL
% MOISTURE:  12.6                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	35	19.5
alpha-BHC	ND	11.4
beta-BHC	ND	22.9
delta-BHC	ND	28.6
gamma-BHC (Lindane)	ND	19.5
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	180	114
4,4'-DDE	210	114
4,4'-DDT	ND	114
Dieldrin	58	22.9
Endosulfan I	ND	19.5
Endosulfan II	ND	229
Endosulfan Sulfate	ND	22.9
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	229
Heptachlor Epoxide	ND	572
Methoxychlor	ND	1140
Toxaphene	ND	2290
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	91	20-150

RL: Reporting Limit

007

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/05/96
BATCH NO.: 96F014                    DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-071            DATE ANALYZED:  06/07/96
CONTROL NO.: F014-09                MATRIX:         SOIL
% MOISTURE: 11.9                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	ND	22.7
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	227
Heptachlor Epoxide	ND	568
Methoxychlor	ND	1140
Toxaphene	ND	2270
URROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:    18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.: 96F014                   DATE EXTRACTED: 06/05/96
SAMPLE ID:  CLJ100-CS-073           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-11                MATRIX:         SOIL
% MOISTURE: 14.1                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.8
alpha-BHC	ND	11.6
beta-BHC	ND	23.3
delta-BHC	ND	29.1
gamma-BHC (Lindane)	ND	19.8
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	23.3
Endosulfan I	ND	19.8
Endosulfan II	ND	233
Endosulfan Sulfate	ND	23.3
Endrin	ND	116
Endrin aldehyde	ND	11.6
Heptachlor	ND	233
Heptachlor Epoxide	ND	582
Methoxychlor	ND	1160
Toxaphene	ND	2330
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-074          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-12                MATRIX:         SOIL
% MOISTURE:  15.3                   DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.1
alpha-BHC	ND	11.8
beta-BHC	ND	23.6
delta-BHC	ND	29.5
gamma-BHC (Lindane)	ND	20.1
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	ND	118
4,4'-DDT	ND	118
Dieldrin	ND	23.6
Endosulfan I	ND	20.1
Endosulfan II	ND	236
Endosulfan Sulfate	ND	23.6
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	236
Heptachlor Epoxide	ND	590
Methoxychlor	ND	1180
Toxaphene	ND	2360
MURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	92	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-075           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-13                 MATRIX:         SOIL
% MOISTURE:  12.0                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	ND	22.7
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	590*	114
4,4'-DDE	ND	114
4,4'-DDT	160	114
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	227
Heptachlor Epoxide	ND	568
Methoxychlor	ND	1140
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	88	20-150

RL: Reporting Limit

* : Analyzed at DF=5 due to high concentration level

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-077          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-15                MATRIX:         SOIL
% MOISTURE:  9.5                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	110
Endosulfan I	ND	22.1
Endosulfan II	ND	18.8
Endosulfan Sulfate	ND	221
Endrin	ND	22.1
Endrin aldehyde	ND	110
Heptachlor	ND	11
Heptachlor Epoxide	ND	221
Methoxychlor	ND	552
Toxaphene	ND	1100
	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	91	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-078          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-16                MATRIX:         SOIL
% MOISTURE:  9.4                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.8
alpha-BHC	ND	11
beta-BHC	ND	22.1
delta-BHC	ND	27.6
gamma-BHC (Lindane)	ND	18.8
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	22.1
Endosulfan I	ND	18.8
Endosulfan II	ND	221
Endosulfan Sulfate	ND	22.1
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	221
Heptachlor Epoxide	ND	552
Methoxychlor	ND	1100
Toxaphene	ND	2210
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	80	20-150
Decachlorobiphenyl	89	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-CS-079           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-17                 MATRIX:         SOIL
% MOISTURE:  10.1                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.9
alpha-BHC	ND	11.1
beta-BHC	ND	22.2
delta-BHC	ND	27.8
gamma-BHC (Lindane)	ND	18.9
alpha-Chlordane	ND	111
gamma-Chlordane	ND	111
4,4'-DDD	ND	111
4,4'-DDE	ND	111
4,4'-DDT	ND	111
Dieldrin	ND	22.2
Endosulfan I	ND	18.9
Endosulfan II	ND	222
Endosulfan Sulfate	ND	22.2
Endrin	ND	111
Endrin aldehyde	ND	11.1
Heptachlor	ND	222
Heptachlor Epoxide	ND	556
Methoxychlor	ND	1110
Toxaphene	ND	2220
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	89	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F014
SAMPLE ID:   MBLK1S
CONTROL NO.: CPF009SB
% MOISTURE:  NA
DATE COLLECTED: NA
DATE RECEIVED:  NA
DATE EXTRACTED: 06/05/96
DATE ANALYZED:  06/07/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====
  
```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	84	20-150
Decachlorobiphenyl	83	20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 3.4

BATCH NO.: 96F014
 SAMPLE ID: CLJ100-CS-064
 CONTROL NO.: F014-01

DATE RECEIVED: 06/05/96
 DATE EXTRACTED: 06/05/96
 DATE ANALYZED: 06/07/96

ACCESSION: 96F014

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	173.00	186.00	108	173.00	169.00	98	10	20-170	50
alpha-Chlordane	ND	173.00	206.00	119	173.00	185.00	107	11	20-170	50
gamma-Chlordane	ND	173.00	185.00	107	173.00	170.00	99	8	20-170	50
4,4'-DDD	ND	345.00	378.00	110	345.00	353.00	102	7	20-170	50
4,4'-DDT	ND	345.00	402.00	117	345.00	375.00	109	7	20-170	50
Dieldrin	ND	345.00	328.00	95	345.00	301.00	87	8	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	414.00	374.00	90	414.00	342.00	83	20-150
Decachlorobiphenyl	690.00	659.00	95	690.00	636.00	92	20-150

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 CITY: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96F014
 SAMPLE ID: LCS1S/LCS1SD
 CONTROL NO.: CPF009SL/C

DATE RECEIVED: NA
 DATE EXTRACTED: 06/05/96
 DATE ANALYZED: 06/07/96

ACCESSION: 96F014

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	175.00	105	167.00	175.00	105	0	47-116	75
alpha-Chlordane	ND	167.00	189.00	113	167.00	191.00	114	1	45-119	75
gamma-Chlordane	ND	167.00	176.00	105	167.00	176.00	106	1	45-119	75
4,4'-DDD	ND	333.00	353.00	106	333.00	353.00	106	0	48-136	75
4,4'-DDT	ND	333.00	371.00	112	333.00	374.00	112	0	34-143	75
Dieldrin	ND	333.00	303.00	91	333.00	303.00	91	0	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	400.00	370.00	92	400.00	367.00	92	20-150
Decachlorobiphenyl	667.00	613.00	92	667.00	617.00	92	20-150



EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-FB-604          DATE ANALYZED:  06/07/96
CONTROL NO.: F014-18                MATRIX:         WATER
% MOISTURE:  NA                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	90	30-150
Decachlorobiphenyl	71	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/04/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/05/96
BATCH NO.:   96F014                  DATE EXTRACTED: 06/05/96
SAMPLE ID:   CLJ100-RB-604           DATE ANALYZED:  06/07/96
CONTROL NO.: F014-19                 MATRIX:         WATER
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
 SURROGATE PARAMETER	 % RECOVERY	 QC LIMIT
Tetrachloro-m-xylene	93	30-150
Decachlorobiphenyl	59	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:   NA
BATCH NO.:  96F014                   DATE EXTRACTED:  06/05/96
SAMPLE ID:  MBLK1W                    DATE ANALYZED:   06/07/96
CONTROL NO.: CPF008WB                 MATRIX:          WATER
% MOISTURE: NA                        DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	30-150
Decachlorobiphenyl	57	24-154

RL: Reporting Limit

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
ADDRESS: 18319/CAMP LEJEUNE
METHOD: EPA 8080
MATRIX: WATER
% MOISTURE: NA

BATCH NO.: 96F014
SAMPLE ID: LCS1W/LCS1WD
CONTROL NO.: CPF008WL/C

DATE RECEIVED: NA
DATE EXTRACTED: 06/05/96
DATE ANALYZED: 06/07/96

ACCESSION: 96F014

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	.50	.57	114	.50	.56	112	2	47-116	50
alpha-Chlordane	ND	.50	.56	112	.50	.56	112	0	45-119	50
gamma-Chlordane	ND	.50	.55	110	.50	.55	110	0	45-119	50
4,4'-DDD	ND	1.00	1.04	104	1.00	1.12	112	7	48-136	50
4,4'-DDT	ND	1.00	1.07	107	1.00	1.10	110	3	34-143	50
Dieldrin	ND	1.00	.90	90	1.00	.94	94	4	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	1.20	.99	82	1.20	1.02	85	30-150
Decachlorobiphenyl	2.00	1.65	82	2.00	1.70	85	24-154



CALIBRATION

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC2
 GC Column : Rtx-35
 Column size ID: .53mm
 LFID & Datime: TE24-19 05-24-96 21:54:58 TE24-20 05-24-96 22:31:41
 LFID & Datime: TE24-21 05-24-96 23:08:24 TE24-22 05-24-96 23:45:08
 LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 05-25-96 00:58:31
 LFID & Datime: TE24-25 05-25-96 01:35:14 TE24-26 05-25-96 02:11:59
 LFID & Datime: TE24-27 05-25-96 02:48:44 TE24-28 05-25-96 03:25:29
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	17678	19650	20474	21133	20017	19791	7
gamma-BHC	5.0	17612	19410	19738	19946	18668	19075	5
beta-BHC	5.0	6739	7026	7777	7996	7731	7454	7
Heptachlor	5.0	17693	17858	17225	16941	15567	17057	5
delta-BHC	5.0	11589	12737	15058	16159	17006	14510	16
Aldrin	5.0	18045	17786	18681	17927	17282	17944	3
Heptachlor Epoxide	5.0	18274	17604	17968	16964	15962	17354	5
gamma-Chlordane	5.0	19619	18677	19081	18009	17106	18498	5
Endosulfan I	5.0	17577	18227	17895	17535	16138	17474	5
alpha-Chlordane	5.0	19235	18309	18529	17349	16511	17987	6
delldrin	10.0	17776	18480	17738	16977	15492	17293	7
DDE	10.0	14637	14751	15728	15085	14358	14912	4
Endrin	10.0	14416	14847	14283	13564	12212	13865	7
Endosulfan II	10.0	16430	15492	15357	13933	12725	14787	10
DDD	10.0	11133	12298	12243	12396	11543	11923	5
Endrin Aldehyde	10.0	13641	12639	12850	11593	10611	12267	10
DDT	10.0	12292	12971	12681	12553	11430	12385	5
Endosulfan Sulfate	10.0	15631	14752	14697	13372	12260	14142	9
Endrin Ketone	10.0	18397	17044	16317	14430	12971	15832	14
Methoxychlor	50.0	5407	5152	4729	4376	3878	4708	13
TCX	5.0	16170	15495	15351	14113	13031	14832	8
DCB	10.0	19012	16608	15132	13136	11773	15132	19

CONTINUE CALIBRATION
METHOD 8080

```

I Name : - CKY Inc
i rument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF07-3 06-07-96 12:03:58 TF07-4 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%D
alpha-BHC	20.0	19791	18.2	9
gamma-BHC	20.0	19075	17.9	10
beta-BHC	20.0	7454	19.5	3
Heptachlor	20.0	17057	19.1	5
delta-BHC	20.0	14510	19.7	1
Aldrin	20.0	17944	17.4	13
Heptachlor Epoxide	20.0	17354	17.4	13
gamma-Chlordane	20.0	18498	17.1	15
Endosulfan I	20.0	17474	17.4	13
alpha-Chlordane	20.0	17987	16.9	15
Dieldrin	40.0	17293	34.5	14
DDE	40.0	14912	36.7	8
Endrin	40.0	13865	34.8	13
Endosulfan II	40.0	14787	34.7	13
DDT	40.0	11923	34.5	14
Endrin Aldehyde	40.0	12267	34.2	14
DDT	40.0	12385	35.0	13
Endosulfan Sulfate	40.0	14142	34.5	14
Endrin Ketone	40.0	15832	33.8	15
Methoxychlor	200.0	4708	198.9	1
TCX	20.0	14832	18.2	9
DCB	40.0	15132	31.2	22

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC2
GC Column : Rtx-35
Column size ID : .53mm
Mid Con Init LFID & Datime: TE24-23 05-25-96 00:21:50 TE24-24 0
Mid Con Cont LFID & Datime: TF07-24 06-08-96 00:06:00 TF07-25 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT CONC	%D
alpha-BHC	20.0	19791	19.9	1
gamma-BHC	20.0	19075	19.9	1
beta-BHC	20.0	7454	21.4	7
Heptachlor	20.0	17057	20.9	5
delta-BHC	20.0	14510	21.7	8
Aldrin	20.0	17944	19.5	2
Heptachlor Epoxide	20.0	17354	19.4	3
gamma-Chlordane	20.0	18498	19.2	4
Endosulfan I	20.0	17474	19.0	5
alpha-Chlordane	20.0	17987	19.2	4
Dieldrin	40.0	17293	38.2	5
DDE	40.0	14912	41.3	3
Endrin	40.0	13865	40.2	1
Endosulfan II	40.0	14787	39.8	0
DDD	40.0	11923	41.4	4
Endrin Aldehyde	40.0	12267	40.1	0
DDT	40.0	12385	42.0	5
Endosulfan Sulfate	40.0	14142	39.4	1
Endrin Ketone	40.0	15832	40.1	0
Methoxychlor	200.0	4708	224.6	12
TCX	20.0	14832	19.9	0
DCB	40.0	15132	37.7	6

DDT/Endrin Breakdown

Instrument ID: GC-2

	File: SF07-2	File: TF07-2
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	2.0	0
Endrin	1.3	1.5

	File: SF07-23	File: TF07-23
	Col: RTX-5	Col: RTX-35
	%breakdown	%breakdown
DDT	7.0	0
Endrin	4.2	2.1

	File:	File:
	Col:	Col:
	%breakdown	%breakdown
DDT		
Endrin		

ANALYSIS SEQUENCE AND EXTRACTION LOG

Areas, times, and heights stored in: E:QF07-10.ATB
SEQUENCE RECORDED IN F:\SF07.SEQ

SEQUENCE FILE: F:\SF07.SEQ

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 IBLK/10C-1-34-1	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
2 PEM01/10C-1-20-2	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
3 DCC1-MIXA/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
4 DCC1-MIXB/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
5 CPF009SB	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
6 96F014-01	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
7 96F014-02	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
8 96F014-03	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
9 96F014-05	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
10 96F014-06	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
11 96F014-09	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
12 96F014-11	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
13 96F014-12	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
14 96F014-13	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
15 96F014-15	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
16 96F014-16	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
17 96F014-17	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
18 CPF009SL	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
19 CPF009SC	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
20 96F014-01M	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
21 96F014-01S	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
22 96F014-13T 5X	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
23 PEM02/10C-1-20-2	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
24 DCC2-MIXA/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000
25 DCC2-MIXB/10-1-242	PEST6	SF07-	1.0000	1.0000	1.0000	1.0000

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

OHM / Camp Lejeune
soil

METHOD

8080

PAGE #

100

DATE EXTRACTED

6/5/96

DATE COMPLETED

6/26/96 10 ⁴³

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/ML)	NOTES
CP F009-SB	—		10		
-SL	—				
-SC	—				
96F014-01	3.0				
-01M					
-01S					
-02					
-03					
-05					
-06					
-09					
-11					
-12					
-13					
-15					
-16					
-17					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISH	F

REAGENT	LOT #
Na2SO4	954496
CH2Cl2	36079
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID MIX A	S10c-01-0-34-02	0.40
SURROGATE ID	S10c-01-0-35-02	2.0
spike mix B	S10c-01-0-35-01	0.40

SDO #	EXTRACT LOCATION

COMMENTS:

PREPARED BY: ML
 STD'S ADDED BY: ML/TA
 CHECKED BY: FY

Extracts Received By:

029

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

OHM / Camp Lejeune
WATER

METHOD
DATE EXTRACTED

8080
6/5/96 - 1770
PAGE # 99
DATE COMPLETED 6/06/96 10 40

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/ML)	NOTES
CPF008-WB	1000		10		
WC	↓		↓		
WC	↓		↓		
F014 - 18	↓		↓		
19	↓		↓		

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2Cl2	36079
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID Mix A	510C-01-0-34-02	0.40
SURROGATE ID	510C-01-0-35-02	1.0
spike mix B	510C-01-0-35-01	0.40

SDG #	EXTRACT LOCATION

COMMENTS:

PREPARED BY: ML/MD

STD'S ADDED BY: MD/FY

CHECKED BY: FY

Extracts Received by:



CKY incorporated Analytical Laboratories

Date: 06-10-1996
CKY Batch No.: 96F019

Attn: Missy Art

OHM
5335 Triangle Parkway, Suite 450
Norcross, GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

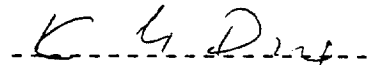
Enclosed is the Laboratory report for samples received on 06/06/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-080	F019-01	Soil	EPA 8080
CLJ100-CS-080DP	F019-02	Soil	EPA 8080
CLJ100-CS-081	F019-03	Soil	EPA 8080
CLJ100-CS-082	F019-04	Soil	EPA 8080
CLJ100-CS-083	F019-05	Soil	EPA 8080
CLJ100-CS-084	F019-06	Soil	EPA 8080
CLJ100-CS-085	F019-07	Soil	EPA 8080
CLJ100-CS-086	F019-08	Soil	EPA 8080
CLJ100-CS-087	F019-09	Soil	EPA 8080
CLJ100-CS-088	F019-10	Soil	EPA 8080
CLJ100-CS-089	F019-11	Soil	EPA 8080
CLJ100-CS-090	F019-12	Soil	EPA 8080
CLJ100-CS-090DP	F019-13	Soil	EPA 8080
CLJ100-CS-091	F019-14	Soil	EPA 8080
CLJ100-CS-092	F019-15	Soil	EPA 8080
CLJ100-CS-093	F019-16	Soil	EPA 8080
CLJ100-CS-094	F019-17	Soil	EPA 8080
CLJ100-CS-095	F019-18	Soil	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CHAIN-OF-CUSTODY RECORD

96FC19

166591

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551, • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, NC.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VAAW Marchburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dowd / Alan Whitt</i>	

NUMBER OF CONTAINERS

ANALYSIS DESIRED
(INDICATE SEPARATE CONTAINERS)

TCL 205+0.05es (2090)

T: 2007

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	<i>15100-CS-080</i>	<i>5/96</i>	<i>0813</i>		X	<i>Duplicate Sample from Acc 1-12 Base</i>	<i>1-807</i>	<i>NEESA 1007 C</i>
2	<i>15100CS-0808</i>	<i>5/96</i>	<i>0813</i>		X	<i>Duplicate Sample from Acc 1-12 Base</i>	<i>1-807</i>	
3	<i>15100-CS-0811</i>	<i>5/96</i>	<i>0817</i>		X	<i>Duplicate Sample from Acc 1-12 Base</i>	<i>1-807</i>	
4	<i>15100-CS-082</i>	<i>5/96</i>	<i>0820</i>		X	<i>Duplicate Sample from Acc 1-12 Base</i>	<i>1-807</i>	
5	<i>15100-CS-083</i>	<i>5/96</i>	<i>0826</i>		X	<i>Duplicate Sample from Acc 1-12 S. Lowell</i>	<i>1-807</i>	
6	<i>15100-CS-084</i>	<i>5/96</i>	<i>0832</i>		X	<i>Duplicate Sample from Acc 1-12 S. Lowell</i>	<i>1-807</i>	
7	<i>15100-CS-085</i>	<i>5/96</i>	<i>0840</i>		X	<i>Duplicate Sample from Acc 1-12 S. Lowell</i>	<i>1-807</i>	
8	<i>15100-CS-086</i>	<i>5/96</i>	<i>0843</i>		X	<i>Duplicate Sample from Acc 1-12 S. Lowell</i>	<i>1-807</i>	
9	<i>15100-CS-087</i>	<i>5/96</i>	<i>0855</i>		X	<i>Duplicate Sample from Acc 1-12 S. Lowell</i>	<i>1-807</i>	
10	<i>15100-CS-088</i>	<i>5/96</i>	<i>0858</i>		X	<i>Duplicate Sample from Acc 1-12 S. Lowell</i>	<i>1-807</i>	<i>✓</i>

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<i>1-10</i>	<i>Carol R. Azam</i>	<i>FED EX 6921491323</i>	<i>6/96</i>	<i>1700</i>	<i>Samples sent to CKY Inc. 48 hour T.A.T. Please fax results to (910) 451-1809. Hold samples until we contact you.</i>
2						
3						
4						

SAMPLER'S SIGNATURE

Carol R. Azam

CHAIN-OF-CUSTODY RECORD

96F019

166592

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, NC</i>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>TCL Pesticides (4086)</i>
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whit</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>			
CLIENT'S REPRESENTATIVE <i>VANW Martelburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dixon / Alan Whit</i>			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED	REMARKS
1	15100-CS-089	6/5/96	1654		X	Contaminated Sample from AOC 1-12	1-802	X	Needs Level 'C'
2	15100-CS-090	6/5/96	1657		X	Contaminated Sample from AOC 1-12	1-802	X	
3	15100-CS-090SP	6/5/96	1639		X	Duplicate Contaminated Sample from AOC 1-12 Subwell	1-802	X	
4	15100-CS-091	6/5/96	1316		X	Contaminated Sample from AOC 1-12	1-802	X	
5	15100-CS-092	6/5/96	1319		X	Contaminated Sample from AOC 1-12	1-802	X	
6	15100-CS-093	6/5/96	1323		X	Contaminated Sample from AOC 1-12	1-802	X	
7	15100-CS-094	6/5/96	1326		X	Contaminated Sample from AOC 1-12	1-802	X	
8	15100-CS-095	6/5/96	1330		X	Contaminated Sample from AOC 1-12	1-802	X	
9	15100-FB-6	6/5/96	1904		X	Field Blank	1-11	X	Do NOT RUN!
10	15100-RB-6	6/5/96	0909		X	Reinate Blank	1-11	X	Do NOT RUN!

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Alan Whit</i>	<i>FED EX 6921491323</i>	6/5/96	1700	Samples sent to CKY Inc. 48 hour T.A.T. Please Fax Results To (910) 451-1809.
2						
3						Hold Samples until we contact you.
4						SAMPLER'S SIGNATURE <i>Alan R. Whit</i>

CORRECTIVE ACTION FORM
(CKY Sample Receipt Discrepancy)

Client	OHM
CKY Batch No.	96F019
Control No.	96F019-1 through 96F019-18
Method	808p
Matrix	Soil

1) Nature of Discrepancy:

Revise COC 96F019.

2) Corrective Action:

Analyze all soil samples
96F019-1 through 96F019-18

3) Result of Corrective Action:

Route to chemists.

Approved by:

Cecilia Oke

Date:

6/6/96

4) Further Corrective Action Taken?

Yes

No

Date:

5/4/96
for 6/6
for 6/6
6-0

Approved by:

Date:

SAMPLE RECEIPT FORM

CONTROL NO.	96F019
CLIENT	OHM
PROJECT	CAMP LEJEUNE

DATE	06-06-96
TIME	10:15 AM
RECIPIENT	I. PATEL

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY	ON (DATE)	AT (TIME)	FROM (SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT <input checked="" type="checkbox"/>					
SHIPPED/AIRBILL NO	FEDEX APTN: 6921491323 SEE AIRBILL				

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:		<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED	<input checked="" type="checkbox"/> SEALED	<input type="checkbox"/> NOT SEALED	<input type="checkbox"/> NO CONTAINER
CONTAINER:	INSIDE TEMPERATURE: 20 C		CUSTODY SEAL		LOCATION	NUMBER
<input checked="" type="checkbox"/> COOLER	PACKAGING	TYPE	SUFFICIENCY	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED	FRONT Closure 2
<input type="checkbox"/> BOX	INSULATION:		OK	NAME:	SEE CO	
<input type="checkbox"/> OTHER:	ICE/COOLANT:	REGULAR	↓	DATE:		
	PACKING MATERIAL:	BUBBLEPAK	↓	TIME:		

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY (COC)	<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> ENCLOSED	<input type="checkbox"/> HANDCARRIED	<input type="checkbox"/> FAXED	<input type="checkbox"/> MAILED
---	---------------------------------	--	--------------------------------------	--------------------------------	---------------------------------

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY
SAMPLE CUSTODY SEAL	EVERY SAMPLE	NONE	/
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK	
SAMPLE AMOUNT	ENOUGH		
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT		
HEADSPACE/BUBBLES	ZERO/NONE		
SAMPLE LABEL INFORMATION	SUFFICIENT		
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT		

SAMPLE INFO.:	SAMPLE ID	DATE	TIME	SIGNATURE	ANALYSES	PRESERVATIVE	CONTAINER
INDIVIDUAL SAMPLE CONTAINER:	NONE		<input checked="" type="checkbox"/> SEALED PLASTIC BAG		CAN	OTHER (SPECIFY): BUBBLEPAK	

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION
		NO DATE OF RELINQUISHED OF COC	

CLIENT SERVICES COPY RECEIVED BY	DATE	TIME
<i>cc: 6/6</i>		

CKY ANATOMICAL LABORATORIES

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QUESTIONS? CALL 800-238-5355 TOLL FREE.

AIRBILL
PACKAGE
TRACKING NUMBER

6921491323

6921491323

96F019
8/6/96
10:15 AM

RECIPIENT'S COPY

Date: 8-5-96

From (Your Name) Please Print ARON R. GRANT		Your Phone Number (Very Important) (410) 451-2599	To (Recipient's Name) Please Print Kam Peng		Recipient's Phone Number (Very Important) (310) 615-2889
Company INTERNATIONAL SERVICE		Department/Floor No.	Company CKY INC.		Department/Floor No.
Street Address CALLE LEJUNAR / MOLOCH...					
City JANUARYVILLE		State	ZIP Required	City TYRANLE	
				State CA	ZIP Required 90503

YOUR INTERNAL BILLING REFERENCE INFORMATION (optional) (First 24 characters will appear on Invoice.)
198319

IF HOLD AT FEDEX LOCATION, Print FEDEX Address Here (Not available at all locations)
Street Address
City
State
ZIP Required

PAYMENT: Bill Sender Bill Recipient's FedEx Acct. No. Bill 3rd Party FedEx Acct. No. Bill Credit Card

Cash Check

SERVICES (Check only one box)		DELIVERY AND SPECIAL HANDLING (Check services required)		PACKAGES	WEIGHT in Pounds Oz	YOUR DECLARED VALUE (500 max)	Emp. No. Date	Federal Express Use
1 Priority Overnight (Delivery by next business morning) 41 <input checked="" type="checkbox"/>	Standard Overnight (Delivery by next business afternoon No Saturday Delivery) 51 <input type="checkbox"/>	Weekday Service 1 <input type="checkbox"/> HOLD AT FEDEX LOCATION WEEKDAY (If in Section III) 2 <input checked="" type="checkbox"/> DELIVER WEEKDAY		Total Total Total 1 56 1	56	56	<input type="checkbox"/> Cash Received	Basic Charges
Economy Two-Day (Delivery by second business day) 30 <input type="checkbox"/>	Government Overnight (Restricted for authorized users only) 41 <input type="checkbox"/>	Saturday Service 31 <input type="checkbox"/> HOLD AT FEDEX LOCATION SATURDAY (Fall in Section III) 3 <input type="checkbox"/> DELIVER SATURDAY (Extra charge) (Not available to all locations)					<input type="checkbox"/> Return Shipment	Declared Value Charge
Freight Service (For packages over 150 lbs.) 70 <input type="checkbox"/> OVERNIGHT FREIGHT** 80 <input type="checkbox"/> TWO-DAY FREIGHT** (Confirmed rates only required) Delivery commitment may be tighter in some areas. **Call for delivery schedule.		Special Handling 4 <input checked="" type="checkbox"/> DANGEROUS GOODS (Extra charge) 6 <input type="checkbox"/> DRY ICE Dangerous Goods Shipper's Declaration not required Dry Ice 9 UN 1845 # X kg 904					<input type="checkbox"/> Third Party <input type="checkbox"/> Chg. To Del <input type="checkbox"/> Chg. To Hold	Street Address
INSTRUCTIONS (Mark appropriate boxes) <input checked="" type="checkbox"/> Dangerous Goods as per attached Shipper's Declaration <input type="checkbox"/> Dangerous Goods Shipper's Declaration not required <input type="checkbox"/> Cargo Aircraft only		9 <input type="checkbox"/> SATURDAY PICK-UP (Extra charge)		DIM SHIPMENT (Chargeable Weight) <input type="checkbox"/> lbs.	Received At <input type="checkbox"/> Regular Stop <input checked="" type="checkbox"/> Drop Box <input type="checkbox"/> B.S.C. <input type="checkbox"/> Station	Date/Time Received FedEx Employee Number	Other 2	
		12 <input type="checkbox"/> HOLIDAY DELIVERY (If offered) (Extra charge)		Signature Release Unavailable		REVISION DATE 11/94 Part 1 146187/146188 FORMAT #219 GBFE 219 © 1994 FEDEX PRINTED IN U.S.A.		

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

CHLORINATED PESTICIDES

SDG#: 96F019

JUNE 10, 1996

CASE NARRATIVE

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
SDG: 96F019

CHLORINATED PESTICIDES

Eighteen (18) soil samples were received on 06/06/96 to be analyzed for Pesticide analysis in accordance with SW846.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

A method blank was free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs were within the QC limits.

IV. Lab Control Sample

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. DB608 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits. Only recovery of Heptachlor in last calibration check in the sequence run was within the QC limits. However, according to the method there was no corrective actions required for recovery out of control in the last calibration check on the sequence run.

VII. Sample Analysis

All sample analyses met the project specific QC requirements. All results were confirmed by the second column DB1701.

SAMPLE RESULTS

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-080           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-01                 MATRIX:         SOIL
% MOISTURE:  7.6                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.4
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27.1
gamma-BHC (Lindane)	ND	18.4
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.4
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	541
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-080DP         DATE ANALYZED:  06/08/96
CONTROL NO.: F019-02                MATRIX:         SOIL
% MOISTURE:  7.3                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.8
beta-BHC	ND	21.6
delta-BHC	ND	27
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	108
gamma-Chlordane	ND	108
4,4'-DDD	ND	108
4,4'-DDE	ND	108
4,4'-DDT	ND	108
Dieldrin	ND	21.6
Endosulfan I	ND	18.3
Endosulfan II	ND	216
Endosulfan Sulfate	ND	21.6
Endrin	ND	108
Endrin aldehyde	ND	10.8
Heptachlor	ND	216
Heptachlor Epoxide	ND	539
Methoxychlor	ND	1080
Toxaphene	ND	2160
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	104	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-081          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-03                MATRIX:         SOIL
% MOISTURE:  9.0                    DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.7
alpha-BHC	ND	11
beta-BHC	ND	22
delta-BHC	ND	27.5
gamma-BHC (Lindane)	ND	18.7
alpha-Chlordane	ND	110
gamma-Chlordane	ND	110
4,4'-DDD	ND	110
4,4'-DDE	ND	110
4,4'-DDT	ND	110
Dieldrin	ND	22
Endosulfan I	ND	18.7
Endosulfan II	ND	220
Endosulfan Sulfate	ND	22
Endrin	ND	110
Endrin aldehyde	ND	11
Heptachlor	ND	220
Heptachlor Epoxide	ND	549
Methoxychlor	ND	1100
Toxaphene	ND	2200
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-082          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-04                MATRIX:         SOIL
% MOISTURE:  6.8                    DILUTION FACTOR: 1
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	107
Endosulfan I	ND	21.5
Endosulfan II	ND	18.2
Endosulfan Sulfate	ND	215
Endrin	ND	21.5
Endrin aldehyde	ND	107
Heptachlor	ND	10.7
Heptachlor Epoxide	ND	215
Methoxychlor	ND	536
Toxaphene	ND	1070
	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	106	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-083          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-05                MATRIX:         SOIL
% MOISTURE:  8.0                    DILUTION FACTOR: 1
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```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.5
alpha-BHC	ND	10.9
beta-BHC	ND	21.7
delta-BHC	ND	27.2
gamma-BHC (Lindane)	ND	18.5
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	21.7
Endosulfan I	ND	18.5
Endosulfan II	ND	217
Endosulfan Sulfate	ND	21.7
Endrin	ND	109
Endrin aldehyde	ND	10.9
Heptachlor	ND	217
Heptachlor Epoxide	ND	543
Methoxychlor	ND	1090
Toxaphene	ND	2170
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	104	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-084          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-06                MATRIX:         SOIL
% MOISTURE:  8.5                    DILUTION FACTOR: 1
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.6
alpha-BHC	ND	10.9
beta-BHC	ND	21.9
delta-BHC	ND	27.3
gamma-BHC (Lindane)	ND	18.6
alpha-Chlordane	ND	109
gamma-Chlordane	ND	109
4,4'-DDD	ND	109
4,4'-DDE	ND	109
4,4'-DDT	ND	109
Dieldrin	ND	109
Endosulfan I	ND	21.9
Endosulfan II	ND	18.6
Endosulfan Sulfate	ND	219
Endrin	ND	21.9
Endrin aldehyde	ND	109
Heptachlor	ND	10.9
Heptachlor Epoxide	ND	219
Methoxychlor	ND	546
Toxaphene	ND	1090
		2190
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	82	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F019
SAMPLE ID:   CLJ100-CS-085
CONTROL NO.: F019-07
% MOISTURE:  11.1
DATE COLLECTED: 06/05/96
DATE RECEIVED:  06/06/96
DATE EXTRACTED: 06/06/96
DATE ANALYZED:  06/08/96
MATRIX:       SOIL
DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.1
alpha-BHC	ND	11.2
beta-BHC	ND	22.5
delta-BHC	ND	28.1
gamma-BHC (Lindane)	ND	19.1
alpha-Chlordane	ND	112
gamma-Chlordane	ND	112
4,4'-DDD	ND	112
4,4'-DDE	ND	112
4,4'-DDT	ND	112
Dieldrin	180	22.5
Endosulfan I	ND	19.1
Endosulfan II	ND	225
Endosulfan Sulfate	ND	22.5
Endrin	ND	112
Endrin aldehyde	ND	11.2
Heptachlor	ND	225
Heptachlor Epoxide	ND	562
Methoxychlor	ND	1120
Toxaphene	ND	2250
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	89	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-086           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-08                 MATRIX:         SOIL
% MOISTURE:  6.8                     DILUTION FACTOR: 1
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.2
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	536
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	90	20-150
Decachlorobiphenyl	110	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.:  96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-087            DATE ANALYZED:  06/08/96
CONTROL NO.: F019-09                 MATRIX:         SOIL
% MOISTURE: 5.2                       DILUTION FACTOR: 1
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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.9
alpha-BHC	ND	10.5
beta-BHC	ND	21.1
delta-BHC	ND	26.4
gamma-BHC (Lindane)	ND	17.9
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21.1
Endosulfan I	ND	17.9
Endosulfan II	ND	211
Endosulfan Sulfate	ND	21.1
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	211
Heptachlor Epoxide	ND	527
Methoxychlor	ND	1050
Toxaphene	ND	2110
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	106	20-150

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RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-088           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-10                 MATRIX:         SOIL
% MOISTURE:  6.9                      DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	537
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	95	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-089           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-11                 MATRIX:         SOIL
% MOISTURE:  5.1                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17.9
alpha-BHC	ND	10.5
beta-BHC	ND	21.1
delta-BHC	ND	26.3
gamma-BHC (Lindane)	ND	17.9
alpha-Chlordane	ND	105
gamma-Chlordane	ND	105
4,4'-DDD	ND	105
4,4'-DDE	ND	105
4,4'-DDT	ND	105
Dieldrin	ND	21.1
Endosulfan I	ND	17.9
Endosulfan II	ND	211
Endosulfan Sulfate	ND	21.1
Endrin	ND	105
Endrin aldehyde	ND	10.5
Heptachlor	ND	211
Heptachlor Epoxide	ND	527
Methoxychlor	ND	1050
Toxaphene	ND	2110
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	109	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.:  96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-090            DATE ANALYZED:  06/08/96
CONTROL NO.: F019-12                 MATRIX:          SOIL
% MOISTURE: 6.6                       DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.2
alpha-BHC	ND	10.7
beta-BHC	ND	21.4
delta-BHC	ND	26.8
gamma-BHC (Lindane)	ND	18.2
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.4
Endosulfan I	ND	18.2
Endosulfan II	ND	214
Endosulfan Sulfate	ND	21.4
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	214
Heptachlor Epoxide	ND	535
Methoxychlor	ND	1070
Toxaphene	ND	2140
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	83	20-150
Decachlorobiphenyl	103	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-090DP          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-13                  MATRIX:         SOIL
% MOISTURE:  6.9                      DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	18.3
alpha-BHC	ND	10.7
beta-BHC	ND	21.5
delta-BHC	ND	26.9
gamma-BHC (Lindane)	ND	18.3
alpha-Chlordane	ND	107
gamma-Chlordane	ND	107
4,4'-DDD	ND	107
4,4'-DDE	ND	107
4,4'-DDT	ND	107
Dieldrin	ND	21.5
Endosulfan I	ND	18.3
Endosulfan II	ND	215
Endosulfan Sulfate	ND	21.5
Endrin	ND	107
Endrin aldehyde	ND	10.7
Heptachlor	ND	215
Heptachlor Epoxide	ND	537
Methoxychlor	ND	1070
Toxaphene	ND	2150
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	85	20-150
Decachlorobiphenyl	111	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-091           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-14                 MATRIX:         SOIL
% MOISTURE:  13.4                    DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.6
alpha-BHC	ND	11.5
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.6
alpha-Chlordane	ND	115
gamma-Chlordane	ND	115
4,4'-DDD	ND	115
4,4'-DDE	260	115
4,4'-DDT	160	115
Dieldrin	180	23.1
Endosulfan I	ND	19.6
Endosulfan II	ND	231
Endosulfan Sulfate	ND	23.1
Endrin	ND	115
Endrin aldehyde	ND	11.5
Heptachlor	ND	231
Heptachlor Epoxide	ND	577
Methoxychlor	ND	1150
Toxaphene	ND	2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	87	20-150
Decachlorobiphenyl	110	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:  96F019                   DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-092           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-15                 MATRIX:         SOIL
% MOISTURE:  12.0                     DILUTION FACTOR: 1
=====

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PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.4
beta-BHC	70	22.7
delta-BHC	ND	28.4
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	140	114
4,4'-DDT	ND	114
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	114
Endrin aldehyde	ND	11.4
Heptachlor	ND	227
Heptachlor Epoxide	ND	568
Methoxychlor	ND	1140
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	105	20-150
Decachlorobiphenyl	125	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-093          DATE ANALYZED:  06/08/96
CONTROL NO.: F019-16                MATRIX:         SOIL
% MOISTURE:  17.7                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.7
alpha-BHC	ND	12.2
beta-BHC	ND	24.3
delta-BHC	ND	30.4
gamma-BHC (Lindane)	ND	20.7
alpha-Chlordane	ND	122
gamma-Chlordane	ND	122
4,4'-DDD	ND	122
4,4'-DDE	ND	122
4,4'-DDT	ND	122
Dieldrin	ND	24.3
Endosulfan I	ND	20.7
Endosulfan II	ND	243
Endosulfan Sulfate	ND	24.3
Endrin	ND	122
Endrin aldehyde	ND	12.2
Heptachlor	ND	243
Heptachlor Epoxide	ND	608
Methoxychlor	ND	1220
Toxaphene	ND	2430
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	81	20-150
Decachlorobiphenyl	108	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/06/96
BATCH NO.: 96F019                    DATE EXTRACTED: 06/06/96
SAMPLE ID:  CLJ100-CS-094            DATE ANALYZED:  06/08/96
CONTROL NO.: F019-17                MATRIX:         SOIL
% MOISTURE: 13.5                     DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.7
alpha-BHC	ND	11.6
beta-BHC	ND	23.1
delta-BHC	ND	28.9
gamma-BHC (Lindane)	ND	19.7
alpha-Chlordane	ND	116
gamma-Chlordane	ND	116
4,4'-DDD	ND	116
4,4'-DDE	ND	116
4,4'-DDT	ND	116
Dieldrin	ND	116
Endosulfan I	ND	23.1
Endosulfan II	ND	19.7
Endosulfan Sulfate	ND	231
Endrin	ND	23.1
Endrin aldehyde	ND	116
Heptachlor	ND	11.6
Heptachlor Epoxide	ND	231
Methoxychlor	ND	578
Toxaphene	ND	1160
		2310
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	110	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/05/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/06/96
BATCH NO.:   96F019                  DATE EXTRACTED: 06/06/96
SAMPLE ID:   CLJ100-CS-095           DATE ANALYZED:  06/08/96
CONTROL NO.: F019-18                 MATRIX:         SOIL
% MOISTURE:  16.3                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20.3
alpha-BHC	ND	11.9
beta-BHC	ND	23.9
delta-BHC	ND	29.9
gamma-BHC (Lindane)	ND	20.3
alpha-Chlordane	ND	119
gamma-Chlordane	ND	119
4,4'-DDD	ND	119
4,4'-DDE	ND	119
4,4'-DDT	ND	119
Dieldrin	ND	23.9
Endosulfan I	ND	20.3
Endosulfan II	ND	239
Endosulfan Sulfate	ND	23.9
Endrin	ND	119
Endrin aldehyde	ND	11.9
Heptachlor	ND	239
Heptachlor Epoxide	ND	597
Methoxychlor	ND	1190
Toxaphene	ND	2390
 SURROGATE PARAMETER	 % RECOVERY	 QC LIMIT
Tetrachloro-m-xylene	110	20-150
Decachlorobiphenyl	108	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED:  NA
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:   NA
BATCH NO.:   96F019                  DATE EXTRACTED:  06/06/96
SAMPLE ID:   MBLK1S                  DATE ANALYZED:   06/07/96
CONTROL NO.: CPF010SB                MATRIX:          SOIL
% MOISTURE:  NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	91	20-150
Decachlorobiphenyl	103	20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
METHOD: EPA 8080
MATRIX: SOIL
% MOISTURE: 12.2

BATCH NO.: 96F019
SAMPLE ID: MAFB-1305-SE02
CONTROL NO.: F013-02

ACCESSION: 96F013 96F019

DATE RECEIVED: NA
DATE EXTRACTED: 06/06/96
DATE ANALYZED: 06/08/96

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	173.00	170.00	98	173.00	169.00	97	1	20-170	50
alpha-Chlordane	ND	173.00	169.00	97	173.00	165.00	95	2	20-170	50
gamma-Chlordane	ND	173.00	142.00	82	173.00	144.00	83	1	20-170	50
4,4'-DDD	ND	345.00	303.00	88	345.00	294.00	85	3	20-170	50
4,4'-DDT	ND	345.00	339.00	98	345.00	333.00	96	2	20-170	50
Dieldrin	ND	345.00	290.00	84	345.00	288.00	83	1	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	151.00	123.00	81	151.00	126.00	83	20-150
Decachlorobiphenyl	151.00	149.00	98	151.00	151.00	100	20-150

CKY QUALITY CONTROL DATA
LCS ANALYSIS

CLIENT: OHM
 PROJECT: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

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=====
BATCH NO.: 96F019
SAMPLE ID: LCS1S
CONTROL NO.: CPF010SL
DATE RECEIVED: NA
DATE EXTRACTED: 06/06/96
DATE ANALYZED: 06/08/96
ACCESSION: 96F013 96F019
  
```

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	LCS RSLT (ug/kg)	LCS % REC	QC LIMIT (%)
Aldrin	ND	167.00	161.00	96	47-116
alpha-Chlordane	ND	167.00	157.00	94	45-119
gamma-Chlordane	ND	167.00	138.00	83	45-119
4,4'-DDD	ND	333.00	291.00	87	48-136
4,4'-DDT	ND	333.00	322.00	97	34-143
Dieldrin	ND	333.00	275.00	83	42-132

SURROGATE PARAMETER	SPIKE AMOUNT (ug/kg)	LCS RESULT (ug/kg)	LCS % REC	QC LIMIT %
Tetrachloro-m-xylene	133.00	113.00	85	20-150
Decachlorobiphenyl	133.00	132.00	99	20-150

CALIBRATION

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC3
 GC Column : DB608
 Column size ID: 0.32 (mm)
 LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0 06-07-96 14:20:21
 LFID & Datime: PF07-5 06-07-96 14:56:00 PF07-6 0 06-07-96 15:31:41
 LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0 06-07-96 16:42:58
 LFID & Datime: PF07-9 06-07-96 17:18:36 PF07-10 0 06-07-96 17:54:16
 LFID & Datime: PF07-11 06-07-96 18:29:56 PF07-12 0 06-07-96 19:05:49
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	12937	12542	11926	11862	10930	12040	6
gamma-BHC	5.0	11827	11233	10481	10244	9267	10611	9
beta-BHC	5.0	5460	5141	4815	4599	4018	4807	11
Heptachlor	5.0	11231	10380	9353	8818	7705	9497	14
delta-BHC	5.0	10929	10422	10089	10039	9310	10158	6
Aldrin	5.0	11564	10815	10274	9914	9031	10320	9
Heptachlor Epoxide	5.0	10732	9815	9053	8310	7429	9068	14
gamma-Chlordane	5.0	11302	10358	9655	9002	8247	9713	12
Endosulfan I	5.0	10920	10092	9180	8703	7606	9300	14
alpha-Chlordane	5.0	11273	10421	9761	9095	8367	9783	12
Dieldrin	10.0	9615	8922	8148	7792	6834	8262	13
DE	10.0	11053	10465	10138	9805	9036	10100	7
ndrin	10.0	7179	6577	5906	5522	4827	6002	15
Endosulfan II	10.0	8586	7719	7030	6256	5598	7038	17
DDD	10.0	6714	6196	5675	5420	4716	5744	13
Endrin Aldehyde	10.0	6754	6107	5610	4993	4616	5616	15
DDT	10.0	6639	6218	5683	5437	4779	5751	12
Endosulfan Sulfate	10.0	7810	6922	6324	5647	5088	6358	17
Endrin Ketone	10.0	7096	6418	5844	5209	4576	5828	17
Methoxychlor	50.0	2339	2150	1854	1687	1389	1884	20
TCX	5.0	14220	13263	12586	11824	10820	12542	10
DCB	10.0	9305	8572	8121	7303	6770	8014	13

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC3
 GC Column : DB608
 Column size ID: 0.32 (mm)
 LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0
 LFID & Datime: PF07-5 06-07-96 14:56:00 PF07-6 0
 LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
 LFID & Datime: PF07-9 06-07-96 17:18:36 PF07-10 0
 LFID & Datime: PF07-11 06-07-96 18:29:56 PF07-12 0

COMPOUND	RT OF STANDARDS (MIN)					MEAN RT	RT WINDOW	
	1.0X	2.0X	4.0X	8.0X	16.0X		FROM	TO
alpha-BHC	8.28	8.28	8.27	8.28	8.28	8.28	8.23	8.33
gamma-BHC	9.75	9.74	9.74	9.74	9.75	9.74	9.69	9.79
beta-BHC	10.04	10.04	10.04	10.04	10.05	10.04	9.99	10.09
Heptachlor	10.96	10.96	10.96	10.96	10.96	10.96	10.91	11.01
delta-BHC	11.44	11.44	11.44	11.44	11.44	11.44	11.39	11.49
Aldrin	12.21	12.21	12.21	12.21	12.21	12.21	12.16	12.26
Heptachlor Epoxide	14.43	14.43	14.43	14.43	14.45	14.43	14.38	14.48
gamma-Chlordane	15.08	15.06	15.06	15.08	15.08	15.07	14.97	15.17
Endosulfan I	15.80	15.80	15.80	15.80	15.80	15.80	15.70	15.90
alpha-Chlordane	15.71	15.71	15.71	15.71	15.73	15.72	15.62	15.82
Dieldrin	17.02	17.02	17.00	17.02	17.02	17.01	16.91	17.11
DDE	16.80	16.78	16.78	16.80	16.80	16.79	16.69	16.89
Endrin	18.45	18.44	18.44	18.44	18.45	18.44	18.34	18.54
Endosulfan II	19.17	19.17	19.17	19.17	19.19	19.17	19.07	19.27
DDD	18.99	18.99	18.99	18.99	18.99	18.99	18.89	19.09
Endrin Aldehyde	20.47	20.47	20.47	20.47	20.49	20.48	20.38	20.58
DDT	20.16	20.14	20.14	20.16	20.16	20.15	20.05	20.25
Endosulfan Sulfate	20.96	20.96	20.96	20.96	20.98	20.96	20.86	21.06
Endrin Ketone	23.93	23.93	23.93	23.95	23.95	23.94	23.84	24.04
Methoxychlor	23.60	23.60	23.60	23.60	23.60	23.60	23.50	23.70
TCX	5.86	5.86	5.86	5.86	5.88	5.87	5.77	5.97
DCB	28.32	28.32	28.32	28.32	28.34	28.33	28.23	28.43

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC-3 HP-5890
GC Column : DB608
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
Mid Con Cont LFID & Datime: PF07-15 06-07-96 20:59:25 PF07-16 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D %RSD
			AREA	CONC	
alpha-BHC	20.0	12040	0	20.6	3
gamma-BHC	20.0	10611	0	20.4	2
beta-BHC	20.0	4807	98175	20.4	2
Heptachlor	20.0	9497	0	20.0	0
delta-BHC	20.0	10158	204869	20.2	1
Aldrin	20.0	10320	208240	20.2	1
Heptachlor Epoxide	20.0	9068	183715	20.3	1
gamma-Chlordane	20.0	9713	194123	20.0	-0
Endosulfan I	20.0	9300	0	20.3	1
alpha-Chlordane	20.0	9783	196697	20.1	1
Dieldrin	40.0	8262	0	40.7	2
DDE	40.0	10100	405936	40.2	0
Endrin	40.0	6002	0	39.9	-0
Endosulfan II	40.0	7038	281293	40.0	-0
	40.0	5744	0	40.0	0
Endrin Aldehyde	40.0	5616	225215	40.1	0
DDT	40.0	5751	0	39.7	-1
Endosulfan Sulfate	40.0	6358	252527	39.7	-1
Endrin Ketone	40.0	5828	232977	40.0	-0
Methoxychlor	200.0	1884	0	200.9	0
TCX	20.0	12542	252601	20.1	1
DCB	40.0	8014	318506	39.7	-1

Note : Ignored the area

CONTINUE CALIBRATION
METHOD 8080

L Name : CKY Inc
 Instrument ID : GC-3 HP-5890
 GC Column : DB608
 Column size ID : 0.32MM X 30M
 Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
 Mid Con Cont LFID & Datime: PF07-37 06-08-96 10:03:35 PF07-38 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		9/10 %RSD
			AREA	CONC	
alpha-BHC	20.0	12040	0	22.6	13
gamma-BHC	20.0	10611	0	22.2	11
beta-BHC	20.0	4807	106974	22.3	11
Heptachlor	20.0	9497	0	21.2	6
delta-BHC	20.0	10158	222879	21.9	10
Aldrin	20.0	10320	228024	22.1	10
Heptachlor Epoxide	20.0	9068	195815	21.6	8
gamma-Chlordane	20.0	9713	210189	21.6	8
Endosulfan I	20.0	9300	0	22.2	11
alpha-Chlordane	20.0	9783	212389	21.7	9
Dieldrin	40.0	8262	0	44.7	12
DDE	40.0	10100	448039	44.4	11
Endrin	40.0	6002	0	43.3	8
Endosulfan II	40.0	7038	305611	43.4	9
	40.0	5744	0	44.1	10
Endrin Aldehyde	40.0	5616	243719	43.4	8
DDT	40.0	5751	0	42.4	6
Endosulfan Sulfate	40.0	6358	271677	42.7	7
Endrin Ketone	40.0	5828	247412	42.4	6
Methoxychlor	200.0	1884	0	215.6	8
TCX	20.0	12542	253515	20.2	1
DCB	40.0	8014	342318	42.7	7

Note : Ignored the area

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC-3 HP-5890
GC Column : DB608
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
Mid Con Cont LFID & Datime: PF07-46 06-08-96 15:24:21 PF07-47 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D %RSD
			AREA	CONC	
alpha-BHC	20.0	12040	0	24.4	22
gamma-BHC	20.0	10611	0	23.9	20
beta-BHC	20.0	4807	116557	24.2	21
Heptachlor	20.0	9497	0	22.6	13
delta-BHC	20.0	10158	243161	23.9	20
Aldrin	20.0	10320	249518	24.2	21
Heptachlor Epoxide	20.0	9068	213174	23.5	18
gamma-Chlordane	20.0	9713	229811	23.7	18
Endosulfan I	20.0	9300	0	23.8	19
alpha-Chlordane	20.0	9783	231152	23.6	18
Dieldrin	40.0	8262	0	48.3	21
DDE	40.0	10100	478323	47.4	18
Endrin	40.0	6002	0	47.4	19
Endosulfan II	40.0	7038	332079	47.2	18
Endrin Aldehyde	40.0	5744	0	47.2	18
DDT	40.0	5616	264135	47.0	18
DDT	40.0	5751	0	45.2	13
Endosulfan Sulfate	40.0	6358	294108	46.3	16
Endrin Ketone	40.0	5828	268072	46.0	15
Methoxychlor	200.0	1884	0	231.2	16
TCX	20.0	12542	266008	21.2	6
DCB	40.0	8014	366656	45.8	14

Note : Ignored the area. This was the last DCC on the sequence, so no corrective of action for %D out of control of +/-15%.

DDT/Endrin Breakdown

Instrument ID: GC#3

	File: PF07-2	File: QF07-2
	Col: DB608	Col: DB1701
	%breakdown	%breakdown
DDT	5	2
Endrin	11	8

	File: PF07-17	File: QF07-17
	Col: DB608	Col: DB1701
	%breakdown	%breakdown
DDT	5	2
Endrin	13	10

	File: PF07-39	File: QF07-39
	Col: DB608	Col: DB1701
	%breakdown	%breakdown
DDT	5	2
Endrin	14	10

ANALYSIS SEQUENCE AND EXTRACTION LOG

SEQUENCE FILE: PF07

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PIBLK	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
2 PEM01	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
3 MIXA 16X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
4 MIXB 16X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
5 MIXA 8X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
6 MIXB 8X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
7 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
8 MIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
9 MIXA 2X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
10 MIXB 2X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
11 MIXA 1X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
12 MIXB 1X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
13 AR1660	PCB	PF07-	1.0000	1.0000	1.0000	1.0000
14 PIBLK02	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
15 DCC01 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
16 DCC01 MIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
17 PEM02	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
18 CPF010SB	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
19 CPF010SL	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
20 96F013-02	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
21 96F013-02M	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
22 96F013-02S	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
23 96F019-01	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
24 96F019-02	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
25 96F019-03	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
26 96F019-04	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
27 96F019-05	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
28 96F019-06	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
29 96F019-07	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
30 96F019-08	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
31 96F019-09	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
32 96F019-10	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
33 96F019-11	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
34 96F019-12	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
35 96F019-13	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
36 PIBLK03	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
37 DCC02 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
38 DCC02 MIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
39 PEM03	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
40 96F019-14	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
41 96F019-15	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
42 96F019-16	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
43 96F019-17	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
44 96F019-18	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
45 PIBLK04	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
46 DCC03 MIXA 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
47 DCC03 MIXB 4X	SW1	PF07-	1.0000	1.0000	1.0000	1.0000
48 PEM04	SW1	PF07-	1.0000	1.0000	1.0000	1.0000

CKY Analytical Laboratories
Sample Preparation Department

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

CKY / OHM
SOIL

METHOD
DATE EXTRACTED

8080
6/06/96

PAGE #

102

DATE COMPLETED 6/06/96

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/A/F)	NOTES
96F010 - SB	-		10.0		
SL	-				
96F013 - 02	30.0				
2M					
2S					
03					
96F019 - 01	3.0				
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2CL2	36079
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID	S10C-01-0-26-02	0.5
SURROGATE ID	S10C-01-0-25-02	2.0

SDG #	EXTRACT LOCATION
	GC-R1-C3

COMMENTS:

PREPARED BY:
STD'S ADDED BY:
CHECKED BY:

MMS / ML
MD / YF

Extracts Received By:



CKY incorporated Analytical Laboratories

Date: 06-20-1996
CKY Batch No.: 96F022

Attn: Missy Art

OHM
5335 TRIANGLE PARKWAY SUITE 450
NORCROSS GA 30092

Subject: Laboratory Report
Project: 18319/CAMP LEJEUNE

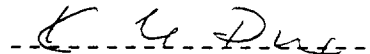
Enclosed is the Laboratory report for samples received on 06/07/96. The samples were received in coolers with ice and intact; the chain-of-custody forms were properly filled out. The data reported include :

Sample ID	Control No.	Matrix	Analysis
CLJ100-CS-096	F022-01	Soil	EPA 8080
CLJ100-CS-097	F022-02	Soil	EPA 8080
CLJ100-CS-099	F022-04	Soil	EPA 8080
CLJ100-RB-606	F022-05	Water	EPA 8080
CLJ100-FB-606	F022-06	Water	EPA 8080
CLJ100-CS-100	F022-07	Soil	EPA 8080
CLJ100-CS-100DP	F022-08	Soil	EPA 8080

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning these results.

Sincerely yours,



Kam Y. Pang, Ph.D.
Laboratory Director

P.S. - All analyses requested for the above referenced project have been completed. Therefore, unless instructed, the remaining portions of the samples will be disposed after fifteen (15) days from the date of this report.

CHAIN-OF-CUSTODY RECORD

76F022 113 166598

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>TCL Pesticides (8000)</i>	REMARKS <i>7-10-01</i> <i>NEESA Level C</i>															
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>																		
CLIENT'S REPRESENTATIVE <i>VAWA Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>																			
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)															
1	15100-CS-016	6/11	1837		X	Confirmation Sample from AOC 1-12 Base	1-807	X													
2	15100-CS-097	6/11	1043		X	Confirmation Sample from AOC 33-38 subcell	1-807	X													
3	15100-CS-098	6/11	1046		X	Confirmation Sample from AOC 33-38 Base	1-807	X													
4	15100-CS-099	6/11	1051		X	Confirmation Sample from AOC 33-38 subcell	1-807	X													
5	15100-RB-606	6/11	1057		X	Route BLANK	1-1L	X													
6	15100-FB-606	6/11	1103		X	Field BLANK	1-1L	X													✓
7	15100-CS-100	6/16	1529		X	Confirmation Sample from AOC 33-38 Base	1-807	X													✓
8	15100-CS-1002P	6/16	1529		X	Confirmation Sample from AOC 33-38	1-807	X													✓
9																					
10																					

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	<i>Gregory R. Adams</i>	<i>FED-EX 1207377850</i>	<i>6/16</i>	<i>1700</i>	<i>Samples Sent To CKY Inc.</i> <i>48 hour TAT. Please Fax Results</i> <i>To (910) 451-1809. Thanks</i> <i>Hold samples until we contact you</i>
2			<i>US Fed</i>	<i>6/16</i>	<i>1530 AM</i>	
3						
4						

SAMPLER'S SIGNATURE
Gregory R. Adams

SAMPLE RECEIPT FORM

CONTROL NO.	96F022
CLIENT	OHM
PROJECT	CAMP LE JUNG

DATE	06-07-96
TIME	9:30 AM
RECIPIENT	F. PATEL

SAMPLE TRANSPORTATION TO CKY LABORATORY:	BY	ON(DATE)	AT(TIME)	FROM(SITE/CO.)	COMMENTS
PICKED-UP BY CKY COURIER					
DELIVERED BY CLIENT	<input checked="" type="checkbox"/>				
SHIPPED/AIRBILL NO	FEDEX APTN: 1207377850 SEE AIRBILL				

SAMPLE BATCH PACKAGING/SEALING UPON RECEIPT:	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED	<input checked="" type="checkbox"/> SEALED	<input type="checkbox"/> NOT SEALED	<input type="checkbox"/> NO CONTAINER		
CONTAINER:	INSIDE TEMPERATURE: 3° C		CUSTODY SEAL		LOCATION	NUMBER	
<input checked="" type="checkbox"/> COOLER	PACKAGING	TYPE	SUFFICIENCY	<input checked="" type="checkbox"/> INTACT	<input type="checkbox"/> DAMAGED	FRONT CLOSURE	2
BOX	INSULATION:		OK	NAME:	SEC COZ		
OTHER:	ICE/COOLANT:	REGULAR	↓	DATE:			
	PACKING MATERIAL:	BUBBLEPAK	↓	TIME:			

SAMPLE DOCUMENTATION/CHAIN-OF-CUSTODY(COC)	<input type="checkbox"/> SEALED	<input checked="" type="checkbox"/> ENCLOSED	<input type="checkbox"/> HANDCARRIED	<input type="checkbox"/> FAXED	<input type="checkbox"/> MAILED
--	---------------------------------	--	--------------------------------------	--------------------------------	---------------------------------

SAMPLE LOG-IN:	CRITERIA	COMMENTS	DISCREPANCY				
SAMPLE CUSTODY SEAL	EVERY SAMPLE	NONE	/				
CONTAINER TYPE/MATERIAL	APPROPRIATE	OK					
SAMPLE AMOUNT	ENOUGH	↓					
SAMPLE PRESERVATION/HOLDING TIME	SUFFICIENT						
HEADSPACE/BUBBLES	ZERO/NONE	↓					
SAMPLE LABEL INFORMATION	SUFFICIENT						
CHAIN-OF-CUSTODY INFORMATION	SUFFICIENT	SEE BELOW					
SAMPLE INFO.:	SAMPLE ID	DATE		TIME	SIGNATURE	ANALYSES	PRESERVATIVE
INDIVIDUAL SAMPLE CONTAINER:	NONE	<input checked="" type="checkbox"/> SEALED PLASTIC BAG	CAN	OTHER(SPECIFY):	BUBBLEPAK		

SAMPLE NUMBER	CLIENT ID	DISCREPANCY	ACTION	
-5	CLJ100-RB-606	REC'D W/S. TIME 1103 ON LABEL	/	
-6	CLJ100-FB-606	REC'D W/S. TIME 1057 ON LABEL		
CLIENT SERVICES COPY RECEIVED BY		Alvin 6/7	DATE	TIME

CKY INC. ANALYTICAL LABORATORIES, 630 Maple Ave. Torrance, Calif 90503 Tel: (310) 618-8880 Fax: (310) 618-8818

CORRECTIVE ACTION FORM
(CKY Sample Receipt Discrepancy)

Client	OHM - Camp Lejeune
CKY Batch No.	96FO22
Control No.	
Method	8080
Matrix	oil + water

1) Nature of Discrepancy:

Release of COC 166598

2) Corrective Action:

3) Result of Corrective Action:

- Please analyze all samples per 8080, except 96FO22-3.
- TAT : 48 Hrs.

Approved by: Cecilia Chao Date: 6/11/96

4) Further Corrective Action Taken? Yes No Date: _____

per 6/11/96
plus 6/11/96
15 6/11/96

Approved by: _____ Date: _____

LABORATORY REPORT FOR

OHM

18319/CAMP LEJEUNE

**EPA 8080
PESTICIDES**

SDG#: 96F022

JUNE 20, 1996

CASE NARRATIVE

CLIENT: OHM
PROJECT: 18319/CAMP LEJEUNE
SDG: 96F022

CHLORINATED PESTICIDES

Six (6) soil and two (2) water samples were received on 06/07/96 to be analyzed for Pesticide analysis in accordance with SW846.

I. Holding Time

All samples were extracted and analyzed within the holding time criteria.

II. Blank

All method blanks were free of contamination.

III. Matrix Spike/Matrix Spike Duplicate

All recoveries and RPDs of soil matrix were within the QC limits except RPD of 4,4-DDD. No corrective action since RPD of 4,4-DDD in LCS/LCSD was within limit. No MS/MSD required for rinsate and field blank samples.

IV. Lab Control Sample/Lab Control Duplicate

All results were within the control limits.

V. Surrogate Recovery

All surrogate recoveries were within the control limits.

VI. Instrument Performance and Calibration

An initial calibration was five-point and all RSDs were within the QC limits in a quantitation column. DB608 was used as the quantitation column. All continue calibrations were checked at 12 hour interval and all recoveries in the quantitation were within the QC limits. All DDT and Endrin breakdown were within QC limits. Only recovery of Heptachlor, DDT, and Methoxychlor in last calibration check for DB608 column in the sequence run were within the QC limits. However, according to the method there was no corrective actions required for recovery out of control in the last calibration check on the sequence run.

VII. Sample Analysis

All sample analyses met the project specific QC requirements. All results were confirmed by the second column DB1701.

SAMPLE RESULTS

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                  DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-096           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-01                 MATRIX:         SOIL
% MOISTURE:  11.7                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.3
alpha-BHC	ND	11.3
beta-BHC	ND	22.7
delta-BHC	ND	28.3
gamma-BHC (Lindane)	ND	19.3
alpha-Chlordane	ND	113
gamma-Chlordane	ND	113
4,4'-DDD	ND	113
4,4'-DDE	ND	113
4,4'-DDT	ND	113
Dieldrin	ND	22.7
Endosulfan I	ND	19.3
Endosulfan II	ND	227
Endosulfan Sulfate	ND	22.7
Endrin	ND	113
Endrin aldehyde	ND	11.3
Heptachlor	ND	227
Heptachlor Epoxide	ND	566
Methoxychlor	ND	1130
Toxaphene	ND	2270
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	98	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                  DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-097           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-02                 MATRIX:         SOIL
% MOISTURE:  12.4                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	114
Endosulfan I	ND	22.8
Endosulfan II	ND	19.4
Endosulfan Sulfate	ND	228
Endrin	ND	22.8
Endrin aldehyde	ND	114
Heptachlor	ND	11.4
Heptachlor Epoxide	ND	228
Methoxychlor	ND	571
Toxaphene	ND	1140
		2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	88	20-150
Decachlorobiphenyl	103	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                  DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-099           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-04                 MATRIX:         SOIL
% MOISTURE:  12.3                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	19.4
alpha-BHC	ND	11.4
beta-BHC	ND	22.8
delta-BHC	ND	28.5
gamma-BHC (Lindane)	ND	19.4
alpha-Chlordane	ND	114
gamma-Chlordane	ND	114
4,4'-DDD	ND	114
4,4'-DDE	ND	114
4,4'-DDT	ND	114
Dieldrin	ND	114
Endosulfan I	ND	22.8
Endosulfan II	ND	19.4
Endosulfan Sulfate	ND	228
Endrin	ND	22.8
Endrin aldehyde	ND	114
Heptachlor	ND	11.4
Heptachlor Epoxide	ND	228
Methoxychlor	ND	570
Toxaphene	ND	1140
		2280
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	84	20-150
Decachlorobiphenyl	107	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                  DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-100           DATE ANALYZED:  06/10/96
CONTROL NO.: F022-07                 MATRIX:         SOIL
% MOISTURE:  14.8                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	31	20
alpha-BHC	ND	11.7
beta-BHC	ND	23.5
delta-BHC	ND	29.3
gamma-BHC (Lindane)	ND	20
alpha-Chlordane	ND	117
gamma-Chlordane	ND	117
4,4'-DDD	ND	117
4,4'-DDE	ND	117
4,4'-DDT	ND	117
Dieldrin	ND	23.5
Endosulfan I	ND	20
Endosulfan II	ND	235
Endosulfan Sulfate	ND	23.5
Endrin	ND	117
Endrin aldehyde	ND	11.7
Heptachlor	ND	235
Heptachlor Epoxide	ND	587
Methoxychlor	ND	1170
Toxaphene	ND	2350
MURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	94	20-150
Decachlorobiphenyl	105	20-150

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:     18319/CAMP LEJEUNE       DATE RECEIVED:  06/07/96
BATCH NO.:   96F022                  DATE EXTRACTED: 06/09/96
SAMPLE ID:   CLJ100-CS-100DP         DATE ANALYZED:  06/10/96
CONTROL NO.: F022-08                 MATRIX:         SOIL
% MOISTURE:  14.9                    DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	20
alpha-BHC	ND	11.8
beta-BHC	ND	23.5
delta-BHC	ND	29.4
gamma-BHC (Lindane)	ND	20
alpha-Chlordane	ND	118
gamma-Chlordane	ND	118
4,4'-DDD	ND	118
4,4'-DDE	ND	118
4,4'-DDT	ND	118
Dieldrin	ND	23.5
Endosulfan I	ND	20
Endosulfan II	ND	235
Endosulfan Sulfate	ND	23.5
Endrin	ND	118
Endrin aldehyde	ND	11.8
Heptachlor	ND	235
Heptachlor Epoxide	ND	588
Methoxychlor	ND	1180
Toxaphene	ND	2350
 SURROGATE PARAMETER	 % RECOVERY	 QC LIMIT
Tetrachloro-m-xylene	82	20-150
Decachlorobiphenyl	104	20-150

=====
RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F022
SAMPLE ID:   MBLK1S
CONTROL NO.: CPF011SB
% MOISTURE:  NA
DATE COLLECTED: NA
DATE RECEIVED:  NA
DATE EXTRACTED: 06/09/96
DATE ANALYZED:  06/10/96
MATRIX:        SOIL
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)
Aldrin	ND	17
alpha-BHC	ND	10
beta-BHC	ND	20
delta-BHC	ND	25
gamma-BHC (Lindane)	ND	17
alpha-Chlordane	ND	100
gamma-Chlordane	ND	100
4,4'-DDD	ND	100
4,4'-DDE	ND	100
4,4'-DDT	ND	100
Dieldrin	ND	20
Endosulfan I	ND	17
Endosulfan II	ND	200
Endosulfan Sulfate	ND	20
Endrin	ND	100
Endrin aldehyde	ND	10
Heptachlor	ND	200
Heptachlor Epoxide	ND	500
Methoxychlor	ND	1000
Toxaphene	ND	2000
 SURROGATE PARAMETER	 % RECOVERY	 QC LIMIT
Tetrachloro-m-xylene	86	20-150
Decachlorobiphenyl	100	20-150

RL: Reporting Limit

CKY QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: OHM
 F T: 18319/CAMP LEJEUNE
 ML: EPA 8080
 MATRIX: SOIL
 % MOISTURE: 11.7

BATCH NO.: 96F022
 SAMPLE ID: CLJ100-CS-096
 CONTROL NO.: F022-01
 DATE RECEIVED: 06/07/96
 DATE EXTRACTED: 06/09/96
 DATE ANALYZED: 06/10/96
 ACCESSION: 96F022

PARAMETER	SMPL RSLT (ug/kg)	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	189.00	157.00	83	189.00	189.00	100	18	20-170	50
alpha-Chlordane	ND	189.00	224.00	119	189.00	178.00	94	23	20-170	50
gamma-Chlordane	ND	189.00	225.00	119	189.00	157.00	83	35	20-170	50
4,4'-DDD	ND	377.00	600.00	159	377.00	316.00	84	62*	20-170	50
4,4'-DDT	ND	377.00	448.00	119	377.00	381.00	101	16	20-170	50
Dieldrin	ND	377.00	389.00	103	377.00	327.00	87	18	20-170	50

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	MS RSLT (ug/kg)	MS % REC	SPIKE AMT (ug/kg)	MSD RSLT (ug/kg)	MSD % REC	QC LIMIT %
Tetrachloro-m-xylene	151.00	143.00	95	151.00	128.00	85	20-150
Decachlorobiphenyl	151.00	153.00	102	151.00	147.00	98	20-150

* Out of QC limit.

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 METHOD: EPA 8080
 MATRIX: SOIL
 % MOISTURE: NA

BATCH NO.: 96F022
 SAMPLE ID: LCS1S/LCS1SD
 CONTROL NO.: CPF011SL/C

DATE RECEIVED: NA
 DATE EXTRACTED: 06/09/96
 DATE ANALYZED: 06/10/96

ACCESSION: 96F022

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	167.00	155.00	93	167.00	160.00	96	3	47-116	75
alpha-Chlordane	ND	167.00	150.00	90	167.00	149.00	89	1	45-119	75
gamma-Chlordane	ND	167.00	125.00	75	167.00	129.00	77	3	45-119	75
4,4'-DDD	ND	333.00	259.00	78	333.00	261.00	78	1	48-136	75
4,4'-DDT	ND	333.00	309.00	93	333.00	311.00	93	1	34-143	75
Dieldrin	ND	333.00	262.00	79	333.00	267.00	80	2	42-132	75

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	133.00	111.00	83	133.00	110.00	83	20-150
Decachlorobiphenyl	133.00	133.00	100	133.00	127.00	96	20-150

EPA METHOD 8080
PESTICIDES

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=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/07/96
BATCH NO.:  96F022                   DATE EXTRACTED: 06/11/96
SAMPLE ID:  CLJ100-RB-606            DATE ANALYZED:  06/12/96
CONTROL NO.: F022-05                MATRIX:         WATER
% MOISTURE: NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
PROBATE PARAMETER	% RECOVERY	QC LIMIT
1,2,4,5-tetrachloro-m-xylene	83	30-150
Decachlorobiphenyl	106	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM                      DATE COLLECTED: 06/06/96
PROJECT:    18319/CAMP LEJEUNE        DATE RECEIVED:  06/07/96
BATCH NO.:  96F022                   DATE EXTRACTED: 06/11/96
SAMPLE ID:  CLJ100-FB-606            DATE ANALYZED:  06/12/96
CONTROL NO.: F022-06                 MATRIX:         WATER
% MOISTURE: NA                       DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
SURROGATE PARAMETER	% RECOVERY	QC LIMIT
Tetrachloro-m-xylene	100	30-150
Decachlorobiphenyl	109	24-154

RL: Reporting Limit

EPA METHOD 8080
PESTICIDES

```

=====
CLIENT:      OHM
PROJECT:     18319/CAMP LEJEUNE
BATCH NO.:  96F022
SAMPLE ID:   MBLK1W
CONTROL NO.: CPF012WB
% MOISTURE:  NA
DATE COLLECTED: NA
DATE RECEIVED:  NA
DATE EXTRACTED: 06/11/96
DATE ANALYZED:  06/12/96
MATRIX:        WATER
DILUTION FACTOR: 1
=====

```

PARAMETERS	RESULTS (ug/L)	RL (ug/L)
Aldrin	ND	.04
alpha-BHC	ND	.03
beta-BHC	ND	.05
delta-BHC	ND	.05
gamma-BHC (Lindane)	ND	.04
alpha-Chlordane	ND	.14
gamma-Chlordane	ND	.14
4,4'-DDD	ND	.04
4,4'-DDE	ND	.1
4,4'-DDT	ND	.02
Dieldrin	ND	.14
Endosulfan I	ND	.04
Endosulfan II	ND	.1
Endosulfan Sulfate	ND	.06
Endrin	ND	.1
Endrin aldehyde	ND	.03
Heptachlor	ND	.05
Heptachlor Epoxide	ND	.05
Methoxychlor	ND	.5
Toxaphene	ND	1
URROGATE PARAMETER	% RECOVERY	QC LIMIT
trachloro-m-xylene	94	30-150
Decachlorobiphenyl	116	24-154

RL: Reporting Limit

CKY QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: OHM
 ADDRESS: 18319/CAMP LEJEUNE
 CITY: EPA 8080
 MATRIX: WATER
 % MOISTURE: NA

BATCH NO.: 96F022
 SAMPLE ID: LCS1W/LCS1WD
 CONTROL NO.: CPF012WL/C

DATE RECEIVED: NA
 DATE EXTRACTED: 06/11/96
 DATE ANALYZED: 06/12/96

ACCESSION: 96F022

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD %	QC LIMIT %	RPD LIMIT %
Aldrin	ND	.50	.55	110	.50	.57	114	4	47-116	50
alpha-Chlordane	ND	.50	.564	113	.50	.55	110	3	45-119	50
gamma-Chlordane	ND	.50	.525	105	.50	.50	100	5	45-119	50
4,4'-DDD	ND	1.00	1.09	109	1.00	1.03	103	6	48-136	50
4,4'-DDT	ND	1.00	1.16	116	1.00	1.09	109	6	34-143	50
Dieldrin	ND	1.00	1.00	100	1.00	.98	98	2	42-132	50

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT %
Tetrachloro-m-xylene	.20	.175	88	.20	.189	94	30-150
Decachlorobiphenyl	.20	.219	110	.20	.221	110	24-154

CALIBRATION

INITIAL CALIBRATION
METHOD 8080

Lab Name : CKY Inc
 Instrument ID : GC3
 GC Column : DB608
 Column size ID: 0.32 (mm)
 LFID & Datetime: PF07-3 06-07-96 13:44:42 PF07-4 06-07-96 14:20:21
 LFID & Datetime: PF07-5 06-07-96 14:56:00 PF07-6 06-07-96 15:31:41
 LFID & Datetime: PF07-7 06-07-96 16:07:20 PF07-8 06-07-96 16:42:58
 LFID & Datetime: PF07-9 06-07-96 17:18:36 PF07-10 06-07-96 17:54:16
 LFID & Datetime: PF07-11 06-07-96 18:29:56 PF07-12 06-07-96 19:05:49
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	12937	12542	11926	11862	10930	12040	6
gamma-BHC	5.0	11827	11233	10481	10244	9267	10611	9
beta-BHC	5.0	5460	5141	4815	4599	4018	4807	11
Heptachlor	5.0	11231	10380	9353	8818	7705	9497	14
delta-BHC	5.0	10929	10422	10089	10039	9310	10158	6
Aldrin	5.0	11564	10815	10274	9914	9031	10320	9
Heptachlor Epoxide	5.0	10732	9815	9053	8310	7429	9068	14
gamma-Chlordane	5.0	11302	10358	9655	9002	8247	9713	12
Endosulfan I	5.0	10920	10092	9180	8703	7606	9300	14
alpha-Chlordane	5.0	11273	10421	9761	9095	8367	9783	12
Dieldrin	10.0	9615	8922	8148	7792	6834	8262	13
DDE	10.0	11053	10465	10138	9805	9036	10100	7
Endrin	10.0	7179	6577	5906	5522	4827	6002	15
Endosulfan II	10.0	8586	7719	7030	6256	5598	7038	17
DDD	10.0	6714	6196	5675	5420	4716	5744	13
Endrin Aldehyde	10.0	6754	6107	5610	4993	4616	5616	15
DDT	10.0	6639	6218	5683	5437	4779	5751	12
Endosulfan Sulfate	10.0	7810	6922	6324	5647	5088	6358	17
Endrin Ketone	10.0	7096	6418	5844	5209	4576	5828	17
Methoxychlor	50.0	2339	2150	1854	1687	1389	1884	20
TCX	5.0	14220	13263	12586	11824	10820	12542	10
DCB	10.0	9305	8572	8121	7303	6770	8014	13

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC3
 GC Column : DB608
 Column size ID: 0.32 (mm)
 LFID & Datime: PF07-3 06-07-96 13:44:42 PF07-4 0
 LFID & Datime: PF07-5 06-07-96 14:56:00 PF07-6 0
 LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
 LFID & Datime: PF07-9 06-07-96 17:18:36 PF07-10 0
 LFID & Datime: PF07-11 06-07-96 18:29:56 PF07-12 0

COMPOUND	RT OF STANDARDS (MIN)					MEAN RT	RT WINDOW	
	1.0X	2.0X	4.0X	8.0X	16.0X		FROM	TO
alpha-BHC	8.28	8.28	8.27	8.28	8.28	8.28	8.23	8.33
gamma-BHC	9.75	9.74	9.74	9.74	9.75	9.74	9.69	9.79
beta-BHC	10.04	10.04	10.04	10.04	10.05	10.04	9.99	10.09
Heptachlor	10.96	10.96	10.96	10.96	10.96	10.96	10.91	11.01
delta-BHC	11.44	11.44	11.44	11.44	11.44	11.44	11.39	11.49
Aldrin	12.21	12.21	12.21	12.21	12.21	12.21	12.16	12.26
Heptachlor Epoxide	14.43	14.43	14.43	14.43	14.45	14.43	14.38	14.48
gamma-Chlordane	15.08	15.06	15.06	15.08	15.08	15.07	14.97	15.17
Endosulfan I	15.80	15.80	15.80	15.80	15.80	15.80	15.70	15.90
alpha-Chlordane	15.71	15.71	15.71	15.71	15.73	15.72	15.62	15.82
Dieldrin	17.02	17.02	17.00	17.02	17.02	17.01	16.91	17.11
DDE	16.80	16.78	16.78	16.80	16.80	16.79	16.69	16.89
Endrin	18.45	18.44	18.44	18.44	18.45	18.44	18.34	18.54
Endosulfan II	19.17	19.17	19.17	19.17	19.19	19.17	19.07	19.27
DDE	18.99	18.99	18.99	18.99	18.99	18.99	18.89	19.09
Endrin Aldehyde	20.47	20.47	20.47	20.47	20.49	20.48	20.38	20.58
DDT	20.16	20.14	20.14	20.16	20.16	20.15	20.05	20.25
Endosulfan Sulfate	20.96	20.96	20.96	20.96	20.98	20.96	20.86	21.06
Endrin Ketone	23.93	23.93	23.93	23.95	23.95	23.94	23.84	24.04
Methoxychlor	23.60	23.60	23.60	23.60	23.60	23.60	23.50	23.70
TCX	5.86	5.86	5.86	5.86	5.88	5.87	5.77	5.97
DCB	28.32	28.32	28.32	28.32	28.34	28.33	28.23	28.43

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC3
 GC Column : DB1701
 Column size ID: 0.32 (mm)
 LFID & Datime: QF07-3 06-07-96 13:44:42 QF07-4 0 06-07-96 14:20:21
 LFID & Datime: QF07-5 06-07-96 14:56:00 QF07-6 0 06-07-96 15:31:41
 LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0 06-07-96 16:42:58
 LFID & Datime: QF07-9 06-07-96 17:18:36 QF07-10 0 06-07-96 17:54:16
 LFID & Datime: QF07-11 06-07-96 18:29:56 QF07-12 0 06-07-96 19:05:49
 CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA/UNIT)					MEAN	%RSD
		1.0X	2.0X	4.0X	8.0X	16.0X		
alpha-BHC	5.0	8766	8869	9008	9576	9298	9103	4
gamma-BHC	5.0	8416	8444	8444	8832	8387	8505	2
beta-BHC	5.0	4290	4133	4014	4056	3622	4023	6
Heptachlor	5.0	7842	7550	7147	7086	6429	7211	7
delta-BHC	5.0	7281	7248	7448	7805	7624	7481	3
Aldrin	5.0	8578	8338	8409	8797	8364	8497	2
Heptachlor Epoxide	5.0	8164	7770	7592	7567	6964	7611	6
gamma-Chlordane	5.0	8521	8105	7975	8025	7480	8021	5
Endosulfan I	5.0	8179	7903	7589	7665	7081	7683	5
alpha-Chlordane	5.0	8449	8050	7939	7924	7496	7972	4
delta-chlordane	10.0	7719	7654	7500	7598	6928	7480	4
Endrin	10.0	7847	7819	8114	8248	7986	8003	2
Endrin	10.0	5850	5736	5503	5562	5085	5547	5
Endosulfan II	10.0	6618	6291	6090	5822	5348	6034	8
DDD	10.0	5412	5327	5214	5338	4824	5223	4
Endrin Aldehyde	10.0	4476	4585	4864	5054	5011	4798	5
DDT	10.0	4724	4693	4547	4617	4183	4553	5
Endosulfan Sulfate	10.0	6013	5670	5443	5157	4793	5415	9
Endrin Ketone	10.0	5979	5690	5452	5083	4595	5360	10
Methoxychlor	50.0	2100	2004	1833	1741	1533	1842	12
TCX	5.0	9368	9242	9354	9085	8658	9141	3
DCB	10.0	7106	6788	6687	6286	6103	6594	6

INITIAL CALIBRATION
METHOD 8080

Name : CKY Inc
 Instrument ID : GC3
 GC Column : DB1701
 Column size ID: 0.32 (mm)
 LFID & Datime: QF07-3 06-07-96 13:44:42 QF07-4 0
 LFID & Datime: QF07-5 06-07-96 14:56:00 QF07-6 0
 LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0
 LFID & Datime: QF07-9 06-07-96 17:18:36 QF07-10 0
 LFID & Datime: QF07-11 06-07-96 18:29:56 QF07-12 0

COMPOUND	RT OF STANDARDS (MIN)					MEAN RT	RT WINDOW	
	1.0X	2.0X	4.0X	8.0X	16.0X		FROM	TO
alpha-BHC	4.88	4.88	4.86	4.88	4.88	4.87	4.82	4.92
gamma-BHC	5.91	5.90	5.90	5.90	5.90	5.90	5.85	5.95
beta-BHC	8.17	8.17	8.17	8.17	8.17	8.17	8.12	8.22
Heptachlor	6.46	6.46	6.45	6.46	6.46	6.46	6.41	6.51
delta-BHC	8.80	8.80	8.80	8.80	8.80	8.80	8.75	8.85
Aldrin	7.20	7.18	7.18	7.20	7.20	7.19	7.14	7.24
Heptachlor Epoxide	9.35	9.34	9.34	9.35	9.35	9.35	9.30	9.40
gamma-Chlordane	10.39	10.39	10.39	10.39	10.39	10.39	10.29	10.49
Endosulfan I	10.15	10.15	10.14	10.15	10.15	10.15	10.05	10.25
alpha-Chlordane	10.65	10.65	10.65	10.65	10.65	10.65	10.55	10.75
Dieldrin	11.37	11.36	11.36	11.36	11.36	11.36	11.26	11.46
DDE	11.02	11.02	11.02	11.02	11.04	11.03	10.93	11.13
Endrin	12.02	12.01	12.01	12.01	12.01	12.01	11.91	12.11
Endosulfan II	13.68	13.68	13.68	13.68	13.68	13.68	13.58	13.78
DOD	13.68	13.66	13.66	13.66	13.66	13.66	13.56	13.76
Endrin Aldehyde	15.06	15.06	15.06	15.06	15.06	15.06	14.96	15.16
DDT	14.23	14.23	14.23	14.23	14.23	14.23	14.13	14.33
Endosulfan Sulfate	16.18	16.18	16.18	16.18	16.20	16.19	16.09	16.29
Endrin Ketone	17.40	17.40	17.40	17.40	17.40	17.40	17.30	17.50
Methoxychlor	16.57	16.55	16.55	16.55	16.55	16.55	16.45	16.65
TCX	3.01	3.01	3.01	3.01	3.01	3.01	2.91	3.11
DCB	20.88	20.88	20.88	20.88	20.88	20.88	20.77	20.98

DDT/ENDRIN BREAKDOWN

INSTRUMENT ID: GC-3

	File: PF10-4	File: QF10-4
	Col.: DB608	Col.: DB1701
	% Breakdown	% Breakdown
DDT	5	4
Endrin	12	9

	File: PF12-4	File: QF12-4
	Col.: DB608	Col.: DB1701
	% Breakdown	% Breakdown
DDT	8	2
Endrin	14.9	12

CONTINUE CALIBRATION
METHOD 8080

J Name : CKY Inc
 Instrument ID : GC-3 HP-5890
 GC Column : DB608/~~DB1701~~
 Column size ID : 0.32MM X 30M
 Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
 Mid Con Cont LFID & Datime: PF10-2 06-10-96 12:07:47 PF10-3 0
 CONC UNIT : ppb

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D
			AREA	CONC	
alpha-BHC	20.0	12040	0	20.0	-0
gamma-BHC	20.0	10611	0	19.7	-2
beta-BHC	20.0	4807	97818	20.4	2
Heptachlor	20.0	9497	0	20.2	1
delta-BHC	20.0	10158	192263	18.9	-5
Aldrin	20.0	10320	234721	22.7	14
Heptachlor Epoxide	20.0	9068	199140	22.0	10
gamma-Chlordane	20.0	9713	206513	21.3	6
Endosulfan I	20.0	9300	0	19.9	-1
alpha-Chlordane	20.0	9783	219508	22.4	12
Dieldrin	40.0	8262	0	39.3	-2
DDE	40.0	10100	451148	44.7	12
Endrin	40.0	6002	0	39.9	-0
Endosulfan II	40.0	7038	291460	41.4	4
DDT	40.0	5744	0	40.1	0
Endrin Aldehyde	40.0	5616	226961	40.4	1
DDF	40.0	5751	0	39.8	-1
Endosulfan Sulfate	40.0	6358	255229	40.1	0
Endrin Ketone	40.0	5828	236656	40.6	2
Methoxychlor	200.0	1884	0	196.5	-2
TCX	20.0	12542	254147	20.3	1
DCB	40.0	8014	324843	40.5	1

Note : Ignored the area

CONTINUE CALIBRATION
METHOD 8080

```

Name : CKY Inc
Instrument ID : GC-3 HP-5890
GC Column : DB608/DB1701
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
Mid Con Cont LFID & Datime: PF10-17 06-10-96 21:03:16 PF10-18 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%RSD
			AREA	CONC	
alpha-BHC	20.0	12040	0	24.5	22
gamma-BHC	20.0	10611	0	24.2	21
beta-BHC	20.0	4807	118458	24.6	23
Heptachlor	20.0	9497	0	21.6	8
delta-BHC	20.0	10158	245817	24.2	21
Aldrin	20.0	10320	251830	24.4	22
Heptachlor Epoxide	20.0	9068	214048	23.6	18
gamma-Chlordane	20.0	9713	233815	24.1	20
Endosulfan I	20.0	9300	0	23.9	20
alpha-Chlordane	20.0	9783	232567	23.8	19
Dieldrin	40.0	8262	0	47.6	19
DDE	40.0	10100	458326	45.4	13
Endrin	40.0	6002	0	47.3	18
Endosulfan II	40.0	7038	338534	48.1	20
DDT	40.0	5744	0	46.5	16
Endrin Aldehyde	40.0	5616	268840	47.9	20
DDT	40.0	5751	0	42.0	5
Endosulfan Sulfate	40.0	6358	293996	46.2	16
Endrin Ketone	40.0	5828	264837	45.4	14
Methoxychlor	200.0	1884	0	211.2	6
TCX	20.0	12542	258226	20.6	3
DCB	40.0	8014	339242	42.3	6

Note : Ignored the area. This was the last DCC on the sequence, so no corrective of action for %D out of control of +/- 15%.

CONTINUE CALIBRATION
METHOD 8080

```

I Name : CKY Inc
Instrument ID : GC-3 HP-5890
GC Column : DB608
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: PF07-7 06-07-96 16:07:20 PF07-8 0
Mid Con Cont LFID & Datime: PF12-2 06-12-96 11:18:00 PF12-3 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D
			AREA	CONC	
alpha-BHC	20.0	12040	0	20.9	4
gamma-BHC	20.0	10611	0	20.4	2
beta-BHC	20.0	4807	100593	20.9	5
Heptachlor	20.0	9497	0	20.3	1
delta-BHC	20.0	10158	209619	20.6	3
Aldrin	20.0	10320	221180	21.4	7
Heptachlor Epoxide	20.0	9068	187819	20.7	4
gamma-Chlordane	20.0	9713	207550	21.4	7
Endosulfan I	20.0	9300	0	21.4	7
alpha-Chlordane	20.0	9783	210468	21.5	8
Dieldrin	40.0	8262	0	40.7	2
DDE	40.0	10100	415962	41.2	3
Endrin	40.0	6002	0	39.4	-2
Endosulfan II	40.0	7038	289327	41.1	3
	40.0	5744	11165	42.7	7
Endrin Aldehyde	40.0	5616	219943	39.2	-2
DDT	40.0	5751	0	36.5	-9
Endosulfan Sulfate	40.0	6358	257286	40.5	1
Endrin Ketone	40.0	5828	226470	38.9	-3
Methoxychlor	200.0	1884	0	176.2	-12
TCX	20.0	12542	257018	20.5	2
DCB	40.0	8014	314044	39.2	-2

Note : Ignored the area.

CONTINUE CALIBRATION
METHOD 8080

```

Name           : CKY Inc
Instrument ID   : GC3
GC Column      : DB608
Column size ID : 0.32 (MM)
Mid Con Init LFID & Datime: PF07-7   06-07-96  16:07:20  PF07-8   0
Mid Con Cont LFID & Datime: PF12-20  06-12-96  22:00:05  PF12-21  0
CONC UNIT      : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		
			AREA	CONC	%RSD
alpha-BHC	20.0	12040	0	24.8	24
gamma-BHC	20.0	10611	0	24.3	21
beta-BHC	20.0	4807	118264	24.6	23
Heptachlor	20.0	9497	0	22.7	13
delta-BHC	20.0	10158	245792	24.2	21
Aldrin	20.0	10320	251921	24.4	22
Heptachlor Epoxide	20.0	9068	215771	23.8	19
gamma-Chlordane	20.0	9713	240736	24.8	24
Endosulfan I	20.0	9300	241687	25.3	27
alpha-Chlordane					
Dieldrin	40.0	8262	0	48.8	22
DDE	40.0	10100	462042	45.7	14
Endrin	40.0	6002	0	48.1	20
Endosulfan II	40.0	7038	338498	48.1	20
	40.0	5744	12911	49.2	23
Endrin Aldehyde	40.0	5616	263514	46.9	17
DDT	40.0	5751	0	42.7	7
Endosulfan Sulfate	40.0	6358	298026	46.9	17
Endrin Ketone	40.0	5828	263575	45.2	13
Methoxychlor	200.0	1884	0	211.5	6
TCX	20.0	12542	259501	20.7	3
DCB	40.0	8014	337843	42.2	5

Note : Ignored the area. This was the last DDC on the sequence, so no corrective of action for %D out of control of +/- 15%.

CONTINUE CALIBRATION
METHOD 8080

```

J Name : CKY Inc
i Instrument ID : GC-3 HP-5890
GC Column : DB608/DB1701
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0
Mid Con Cont LFID & Datime: QF10-2 06-10-96 12:07:47 QF10-3 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D
			AREA	CONC	
alpha-BHC	20.0	9103	0	19.4	-3
gamma-BHC	20.0	8505	0	19.3	-4
beta-BHC	20.0	4023	80544	20.0	0
Heptachlor	20.0	7211	0	19.9	-0
delta-BHC	20.0	7481	147856	19.8	-1
Aldrin	20.0	8497	173463	20.4	2
Heptachlor Epoxide	20.0	7611	153231	20.1	1
gamma-Chlordane	20.0	8021	160653	20.0	0
Endosulfan I	20.0	7683	0	19.3	-3
alpha-Chlordane	20.0	7972	161313	20.2	1
Dieldrin	40.0	7480	0	39.3	-2
DDE	40.0	8003	347092	43.4	8
Endrin	40.0	5547	0	38.9	-3
Endosulfan II	40.0	6034	254313	42.1	5
Endrin	40.0	5223	0	39.8	-0
Endrin Aldehyde	40.0	4798	211075	44.0	10
DDT	40.0	4553	0	39.3	-2
Endosulfan Sulfate	40.0	5415	233557	43.1	8
Endrin Ketone	40.0	5360	220515	41.1	3
Methoxychlor	200.0	1842	0	191.3	-4
TCX	20.0	9141	187572	20.5	3
DCB	40.0	6594	268601	40.7	2

Note : Ignored the area.

CONTINUE CALIBRATION
METHOD 8080

```

Name           : CKY Inc
Instrument ID  : GC-3 HP-5890
GC Column     : DB608/DB1701
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: QF07-7   06-07-96   16:07:20   QF07-8   0
Mid Con Cont LFID & Datime: QF10-17  06-10-96   21:03:16   QF10-18  0
CONC UNIT     : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D %RSD
			AREA	CONC	
alpha-BHC	20.0	9103	0	22.5	12
gamma-BHC	20.0	8505	0	22.8	14
beta-BHC	20.0	4023	92051	22.9	14
Heptachlor	20.0	7211	0	22.5	12
delta-BHC	20.0	7481	173130	23.1	16
Aldrin	20.0	8497	190709	22.4	12
Heptachlor Epoxide	20.0	7611	172426	22.7	13
gamma-Chlordane	20.0	8021	182145	22.7	14
Endosulfan I	20.0	7683	0	22.3	12
alpha-Chlordane	20.0	7972	179119	22.5	12
Dieldrin	40.0	7480	0	45.8	15
DDE	40.0	8003	354292	44.3	11
Endrin	40.0	5547	0	47.0	17
Endosulfan II	40.0	6034	279532	46.3	16
Endrin Aldehyde	40.0	5223	0	47.1	18
DDT	40.0	4798	230172	48.0	20
Endosulfan Sulfate	40.0	4553	0	43.3	8
Endrin Ketone	40.0	5415	248305	45.9	15
Methoxychlor	40.0	5360	248349	46.3	16
	200.0	1842	0	221.1	11
TCX	20.0	9141	190935	20.9	4
DCB	40.0	6594	276158	41.9	5

Note : Ignored the area. This was the last DCC on the sequence, so no corrective of action for %D out of control of +/- 15%.

CONTINUE CALIBRATION
METHOD 8080

```

L Name : CKY Inc
Instrument ID : GC-3 HP-5890
GC Column : DB1701
Column size ID : 0.32MM X 30M
Mid Con Init LFID & Datime: QF07-7 06-07-96 16:07:20 QF07-8 0
Mid Con Cont LFID & Datime: QF12-2 06-12-96 11:18:00 QF12-3 0
CONC UNIT : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%RSD
			AREA	CONC	
alpha-BHC	20.0	9103	0	19.5	-2
gamma-BHC	20.0	8505	0	19.2	-4
beta-BHC	20.0	4023	80163	19.9	-0
Heptachlor	20.0	7211	0	19.0	-5
delta-BHC	20.0	7481	144762	19.3	-3
Aldrin	20.0	8497	179451	21.1	6
Heptachlor Epoxide	20.0	7611	154514	20.3	2
gamma-Chlordane	20.0	8021	169753	21.2	6
Endosulfan I	20.0	7683	0	19.5	-3
alpha-Chlordane	20.0	7972	171165	21.5	7
Dieldrin	40.0	7480	0	39.9	-0
DDE	40.0	8003	338375	42.3	6
Endrin	40.0	5547	0	36.5	-9
Endosulfan II	40.0	6034	241464	40.0	0
	40.0	5223	0	41.8	4
Endrin Aldehyde	40.0	4798	191524	39.9	-0
DDT	40.0	4553	0	35.3	-12
Endosulfan Sulfate	40.0	5415	212514	39.2	-2
Endrin Ketone	40.0	5360	197892	36.9	-8
Methoxychlor	200.0	1842	0	164.1	-18 *
TCX	20.0	9141	192736	21.1	5
DCB	40.0	6594	261250	39.6	-1

* Out of control limit of +/- 15%

Note : Ignored the area.

CONTINUE CALIBRATION
METHOD 8080

```

Name           : CKY Inc
Instrument ID   : GC3
GC Column      : DB1701
Column size ID : 0.32 (MM)
Mid Con Init LFID & Datime: QF07-7   06-07-96  16:07:20  QF07-8   0
Mid Con Cont LFID & Datime: QF12-20  06-12-96  22:00:05  QF12-21  0
CONC UNIT      : ppb
  
```

COMPOUND	CONC 4.0X	AVERAGE CF	RESULT		%D
			AREA	CONC	
alpha-BHC	20.0	9103	0	23.5	17
gamma-BHC	20.0	8505	0	23.6	18
beta-BHC	20.0	4023	93682	23.3	16
Heptachlor	20.0	7211	0	23.1	16
delta-BHC	20.0	7481	175689	23.5	17
Aldrin	20.0	8497	195464	23.0	15
Heptachlor Epoxide	20.0	7611	176656	23.2	16
gamma-Chlordane	20.0	8021	190655	23.8	19
Endosulfan I	20.0	7683	0	23.3	17
alpha-Chlordane	20.0	7972	188499	23.6	18
Dieldrin	40.0	7480	0	48.1	20
DDE	40.0	8003	359075	44.9	12
Endrin	40.0	5547	0	48.3	21
Endosulfan II	40.0	6034	290469	48.1	20
	40.0	5223	0	50.5	26
Endrin Aldehyde	40.0	4798	231892	48.3	21
DDT	40.0	4553	0	43.4	9
Endosulfan Sulfate	40.0	5415	250941	46.3	16
Endrin Ketone	40.0	5360	244781	45.7	14
Methoxychlor	200.0	1842	0	217.6	9
TCX	20.0	9141	193742	21.2	6
DCB	40.0	6594	277947	42.2	5

Note : Ignored the area. This was the last DDC on the sequence, so no corrective of action for %D out of control of +/- 15%.

ANALYSIS SEQUENCE AND EXTRACTION LOG

Areas, times, and heights stored in: E:QF10-17.ATB
SEQUENCE RECORDED IN F:\PF10.SEQ

SEQUENCE FILE: F:\PF10.SEQ

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PIBLK01	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
2 DCC01 MIXA 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
3 DCC01 MIXB 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
4 REM01	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
5 CPF011SB	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
6 CPF011SL	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
7 CPF011SC	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
8 96F022-01	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
9 96F022-01M	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
10 96F022-01S	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
11 96F022-02	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
12 96F022-03	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
13 96F022-04	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
14 96F022-07	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
15 96F022-08	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
16 PIBLK02	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
17 DCC02 MIXA 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000
18 DCC02 MIXB 4X	SW1	PF10-	1.0000	1.0000	1.0000	1.0000

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT
MATRIX

OHM
SOIL

METHOD
DATE EXTRACTED

8080
6/9/96

PAGE # 104
DATE COMPLETED 6/9/96

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/A/F)	NOTES
CPFO11 SB			10		
SL					
SC					
96F022-01	3.0				
14					
19					
2					
3					
4					
7					
8					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2CL2	36079
HEXANE	962303

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID	S10C-01-0-26-2	0.5
SURROGATE ID	S10C-01-0-25-07	2.0

SDG #	EXTRACT LOCATION
	GC-K4-13

COMMENTS:

PREPARED BY: MW
STDs ADDED BY: MW/TOM
CHECKED BY: FY

Extracts Received By:

SEQUENCE RECORDED IN F:\PF12.SEQ

SEQUENCE FILE: F:\PF12.SEQ

SAMPLE NAME	METHOD NAME	DATA FILE	AMOUNT INJECTED	INT.STD. AMOUNT	DILUTION FACTOR	SAMPLE WEIGHT
1 PIBLK01	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
2 DCC01 MIXA	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
3 DCC01 MIXB	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
4 PEM01	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
5 CPF013S8	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
6 CPF013SL	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
7 96F013-02	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
8 96F013-02M	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
9 96F013-02S	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
10 96F013-03	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
11 96F013-07	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
12 96F013-08	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
13 96F013-09	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
14 CPF012WB	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
15 CPF012WL	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
16 CPF012WC	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
17 96F022-05	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
18 96F022-06	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
19 PIBLK02	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
20 DCC02 MIXA	SW1	PF12-	1.0000	1.0000	1.0000	1.0000
21 DCC02 MIXB	SW1	PF12-	1.0000	1.0000	1.0000	1.0000

EXTRACTION LOG FOR PESTICIDES/PCBs

CKYT-E01-002

CLIENT OHIO / CAMP LEJEUUE
 MATRIX WATER

METHOD 8080 PAGE # 105
 DATE EXTRACTED 6/11/96 11:00 DATE COMPLETED 6/12/96 9:00

LAB SAMPLE ID	SAMPLE AMOUNT (g/ml)	pH	EXTRACT VOLUME (ml)	CLEAN-UP (G/S/A/P)	NOTES
CP102 WB	1000		10		
WL	↓		↓		
WC					
M22 - 05					
-06					

CLEAN-UP	CODE
GPC	G
TBA	S
ACID	A
FLORISIL	F

REAGENT	LOT #
Na2SO4	954496
CH2Cl2	86079
HEXANE	962803

STANDARDS	ID	AMOUNT ADDED (ml)
SPIKE ID	S10C-01-0-26-02	0.5
SURROGATE ID	S10C-01-0-35-02	1.0

SDG #	EXTRACT LOCATION
	GC-R1-E

COMMENTS: _____

PREPARED BY: TA

STD'S ADDED BY: TA / MD

CHECKED BY: KY

Extracts Received By: _____

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Appendix G
Chain-of-Custody

CHAIN-OF-CUSTODY RECORD

166505

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Camp Lejeune		PROJECT LOCATION Camp Lejeune, N.C.		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. 18329	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599		
CLIENT'S REPRESENTATIVE Vann Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt		

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	CLS100-WC-001	3/11/96	1435	X		Two sample points Soils 0-6"	1-1L	Nersa level 'C'
2								
3								
4								
5								
6								
7								
8								
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1	Quon R. Acorn	FED-EX# 6921491216	3/11/96	1700	Sample sent to A.S.C. 3 Day T.A.T please Fax Results To (910) 451-1809. Thanks
2						
3						
4						

SAMPLER'S SIGNATURE **Quon R. Acorn**

CHAIN-OF-CUSTODY RECORD

166506

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526												
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>														
PROJ. NO. <i>18317</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>														
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>														
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
1	CLJ100-WC-001	3/11/96	1435	X		Two Sample points Soils 0"-6"	1-1L											No Analysis Required
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS										
1	1	<i>Robert R. Acorn</i>		FED-EX# 6721491220		3/11/96	1700	Sample sent to Wayne Disposal.										
2																		
3																		
4								SAMPLER'S SIGNATURE <i>Robert R. Acorn</i>										



CHAIN-OF-CUSTODY RECORD

166530

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune N.C.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>8080</i>			
CLIENT'S REPRESENTATIVE <i>VAN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO.		SAMPLE NUMBER		DATE				TIME	
				COMP		GRAB			
						SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)			
						NUMBER OF CONTAINERS			
						REMARKS			
1	CL5100-FS-001	4/19/96	1451		X	Soil at 6" from 602-601D, 602-601E	1-4oz		
2	CL5100-FS-002	4/19/96	1455		X	Soil at 6" from 603-602D, 603-602E	1-4oz		
3	CL5100-FS-003	4/18/96	1458		X	Soil at 6" from 604-603D, 604-603E	1-4oz		
4	CL5100-FS-004	4/18/96	1501		X	Soil at 6" from 602-601C, 602-601D	1-4oz		
5	CL5100-FS-005	4/18/96	1505		X	Soil at 6" from 603-602C, 603-602D	1-4oz		
6	CL5100-FS-006	4/18/96	1508		X	Soil at 6" from 604-603C, 604-603D	1-4oz		
7	CL5100-FS-007	4/18/96	1523		X	Soil at 6" from 602-601B, 602-601C	1-4oz		
8	CL5100-FS-008	4/18/96	1526		X	Soil at 6" from 603-602B, 603-602C	1-4oz		
9	CL5100-FS-009	4/18/96	1530		X	Soil at 6" from 604-603B, 604-603C	1-4oz		
10	CL5100-FS-010	4/18/96	1534		X	Soil at 6" from 602-601A, 602-601B	1-4oz		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME		
1	1-10	<i>Aaron R. Dean</i>		<i>Claudia Biglan</i>		4/18/96	1515		
2									
3									
4									
REMARKS									
<i>Samples Analyzed on-site</i>									
SAMPLER'S SIGNATURE									
<i>Aaron R. Dean</i>									



CHAIN-OF-CUSTODY RECORD

166511

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME: Camp Lejeune				PROJECT LOCATION: Camp Lejeune, N.C.				
PROJ. NO.: 18319		PROJECT CONTACT: Alan Whitt		PROJECT TELEPHONE NO.: (910) 451-2599				
CLIENT'S REPRESENTATIVE: VANN Marshburn				PROJECT MANAGER/SUPERVISOR: Jim Dunn / Alan Whitt				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-001	4/18/96	1451		X	Soil at 6" from 604-603 A, 604-603 B	8080	CLJ-001
2	CLJ100-FS-002	4/18/96	1455		X	Soil at 6" from 603-602 A, 603-602 B	8080	CLJ-002
3	CLJ100-FS-003	4/18/96	1458		X	Soil at 6" from 602-601 A, 602-601 B	8080	CLJ-003
4	CLJ100-FS-004	4/18/96	1501		X	Soil at 6" from 604-603 B, 604-603 C	8080	CLJ-004
5	CLJ100-FS-005	4/18/96	1505		X	Soil at 6" from 603-602 B, 603-602 C	8080	CLJ-005
6	CLJ100-FS-006	4/18/96	1508		X	Soil at 6" from 602-601 B, 602-601 C	8080	CLJ-006
7	CLJ100-FS-007	4/18/96	1523		X	Soil at 6" from 604-603 C, 604-603 D	8080	CLJ-007
8	CLJ100-FS-008	4/18/96	1526		X	Soil at 6" from 603-602 C, 603-602 D	8080	CLJ-008
9	CLJ100-FS-009	4/19/96	1530		X	Soil at 6" from 602-601 C, 602-601 D	8080	CLJ-009
10	CLJ100-FS-010	4/19/96	1534		X	Soil at 6" from 604-603 D, 604-603 E	8080	CLJ-010
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	Coron R. Acun		Claudine Bigham		4/18/96	1615	Samples Analyzed on-site
2								
3								
4								SAMPLER'S SIGNATURE: <i>Coron R. Acun</i>



CHAIN-OF-CUSTODY RECORD

166531

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VAnn. Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Duns/ Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-011	4/19/96	1537		X	Soil at 6" from 603-602 A, 603-602 B	1-4oz		
2	CLJ100-FS-011 DP	4/19/96	1537		X	Duplicate soil from 603-602 A, 603-602 B	1-4oz		
3	CLJ100-FS-012	4/19/96	1541		X	Soil at 6" from 604-603 A, 604-603 B	1-4oz		
4	CLJ100-FS-013	4/19/96	1555		X	Soil at 6" from 702-701 D, 702-701 E	1-4oz		
5	CLJ100-FS-014	4/19/96	1558		X	Soil at 6" from 703-702 D, 703-702 E	1-4oz		
6	CLJ100-FS-015	4/19/96	1603		X	Soil at 6" from 704-703 D, 704-703 E	1-4oz		
7	CLJ100-FS-016	4/19/96	1606		X	Soil at 6" from 702-701 C, 702-701 D	1-4oz		
8	CLJ100-FS-017	4/19/96	1609		X	Soil at 6" from 703-702 C, 703-702 D	1-4oz		
9	CLJ100-FS-018	4/19/96	1609		X	Soil at 6" from 704-703 C, 704-703 D	1-4oz		
10	CLJ100-FS-019	4/19/96	1615		X	Soil at 6" from 702-701 B, 702-701 C	1-4oz		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Arson R. Acow</i>		<i>Claudine Bighan</i>		4/19/96	1630	<i>Samples Analyzed on-site</i>	
2									
3									
4								SAMPLER'S SIGNATURE <i>Arson R. Acow</i>	



Remediation
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CHAIN-OF-CUSTODY RECORD

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166512

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS												
Camp Lejeune		Camp Lejeune, NC.																
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599																
CLIENT'S REPRESENTATIVE VADW Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt																
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)												
1	CLJ100-FS-011	4/18/96	1537		X	Soil at 6" from 603-602 D, 603-602 E	1-4oz	X										
2	CLJ100-FS-011 DP	4/18/96	1537		X	Duplicate soil from 603-602 D, 603-602 E	1-4oz	X										
3	CLJ100-FS-012	4/18/96	1541		X	Soil at 6" from 602-601 D, 602-601 E	1-4oz	X										
4	CLJ100-FS-013	4/18/96	1555		X	Soil at 6" 704-703 A, 704-703 B	1-4oz	X										
5	CLJ100-FS-014	4/18/96	1558		X	Soil at 6" 703-702 A, 703-702 B	1-4oz	X										
6	CLJ100-FS-015	4/18/96	1603		X	Soil at 6" 702-701 A, 702-701 B	1-4oz	X										
7	CLJ100-FS-016	4/18/96	1606		X	Soil at 6" 704-703 B, 704-703 C	1-4oz	X										
8	CLJ100-FS-017	4/18/96	1608		X	Soil at 6" 703-702 B, 703-702 C	1-4oz	X										
9	CLJ100-FS-018	4/18/96	1609		X	Soil at 6" 702-701 B, 702-701 C	1-4oz	X										
10	CLJ100-FS-019	4/18/96	1615		X	Soil at 6" 704-703 C, 704-703 D	1-4oz	X										

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	AL Whitt	Claudine Bigham	4/18/96	1630	Samples Analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE
Dorow R. ...

CHAIN-OF-STUDY RECORD

166532

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Camp Lejeune		PROJECT LOCATION Camp Lejeune, NC.	
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599	
CLIENT'S REPRESENTATIVE VAND Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dunt / Alan Whitt	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-FS-020	4/18/96	1617		X	Soil at 6" from 703-702 B, 703-702 C	1-4 oz	X	
2	CL5100-FS-021	4/18/96	1628		X	Soil at 6" from 704-703 B, 704-703 C	1-4 oz	X	
3	CL5100-FS-022	4/18/96	1634		X	Soil at 6" from 702-701 A, 702-701 B	1-4 oz	X	
4	CL5100-FS-023	4/18/96	1635		X	Soil at 6" from 703-702 A, 703-702 B	1-4 oz	X	
5	CL5100-FS-023DP	4/19/96	1639		X	Duplicate Soil from 703-702 A, 703-702 B	1-4 oz	X	
6	CL5100-FS-024	4/18/96	1640		X	Soil at 6" from 704-703 A, 704-703 B	1-4 oz	X	
7	CL5100-FS-025	4/18/96	1642		X	Soil at 6" from 802-801 D, 802-801 E	1-4 oz	X	
8	CL5100-FS-02L	4/18/96	1644		X	Soil at 6" from 803-802 D, 803-802 E	1-4 oz	X	
9	CL5100-FS-027	4/18/96	1646		X	Soil at 6" from 804-803 D, 804-803 E	1-4 oz	X	
10	CL5100-FS-028	4/18/96	1648		X	Soil at 6" from 802-801 C, 802-801 D	1-4 oz	X	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Claron R. Acam	Claudine Bigham	4/18/96	1750	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE <i>Claron R. Acam</i>



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166513

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>				
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Durr / Alan Whitt</i>				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
							<i>8080</i>	
1	CLJ100-FS-020	<i>4/8/96</i>	<i>1617</i>		X	<i>Soil at 6" from 703-702 C, 703-702 D</i>	X	<i>021</i>
2	CLJ100-FS-021	<i>4/8/96</i>	<i>1628</i>		X	<i>Soil at 6" from 702-701 E, 702-701 D</i>	X	<i>022</i>
3	CLJ100-FS-022	<i>4/8/96</i>	<i>1634</i>		X	<i>Soil at 6" from 704-703 D, 704-703 E</i>	X	<i>023</i>
4	CLJ100-FS-023	<i>4/8/96</i>	<i>1635</i>		X	<i>Soil at 6" from 703-702 D, 703-702 E</i>	X	<i>024</i>
5	CLJ100-FS-023A	<i>4/8/96</i>	<i>1639</i>		X	<i>Duplicate soil from 703-702 D, 703-702 E</i>	X	<i>025</i>
6	CLJ100-FS-024	<i>4/8/96</i>	<i>1640</i>		X	<i>Soil at 6" from 702-701 D, 702-701 E</i>	X	<i>026</i>
7	CLJ100-FS-025	<i>4/8/96</i>	<i>1642</i>		X	<i>Soil at 6" from 804-803 A, 804-803 B</i>	X	<i>027</i>
8	CLJ100-FS-026	<i>4/8/96</i>	<i>1644</i>		X	<i>Soil at 6" from 803-802 A, 803-802 B</i>	X	<i>028</i>
9	CLJ100-FS-027	<i>4/8/96</i>	<i>1646</i>		X	<i>Soil at 6" from 802-801 A, 802-801 B</i>	X	<i>029</i>
10	CLJ100-FS-028	<i>4/8/96</i>	<i>1648</i>		X	<i>Soil at 6" from 804-803 B, 804-803 C</i>	X	<i>030</i>
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	<i>Caron R. Dean</i>		<i>Claudine Bigham</i>		<i>4/8/96</i>	<i>1750</i>	<i>Samples Analyzed on-site</i>
2								
3								
4								SAMPLER'S SIGNATURE <i>Caron R. Dean</i>

CHAIN-OF-C BODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Corp Lejeune				PROJECT LOCATION Corp Lejeune, N.C.					
PROJ. NO. 12319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-FS-029	4/18/96	1705		X	Soil at 6" from 803-802C, 803-802D	1-4oz	X	
2	CL5100-FS-030	4/19/96	1708		X	Soil at 6" from 804-803C, 804-803D	1-4oz	X	
3	CL5100-FS-031	4/19/96	1711		X	Soil at 6" from 802-801B, 802-801C	1-4oz	X	
4	CL5100-FS-032	4/19/96	1714		X	Soil at 6" from 803-802B, 802-802C	1-4oz	X	
5	CL5100-FS-032DP	4/19/96	1714		X	Duplicate Soil from 803-802B, 803-802C	1-4oz	X	
6	CL5100-FS-033	4/19/96	1716		X	Soil at 6" from 804-803B, 804-803C	1-4oz	X	
7	CL5100-FS-034	4/18/96	1718		X	Soil at 6" from 802-801A, 802-801B	1-4oz	X	
8	CL5100-FS-035	4/18/96	1720		X	Soil at 6" from 803-802A, 802-802B	1-4oz	X	
9	CL5100-FS-036	4/19/96	1723		X	Soil at 6" from 804-803A, 804-803B	1-4oz	X	
10	CL5100-FS-037	4/18/96	1727		X	Soil at 6" from 1004-1003A, 1004-1003B	1-4oz	X	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	Cowan R. Acorn		Maudine Beighan		4/18/96	1755	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Cowan R. Acorn</i>	



CHAIN-OF-CUSTODY RECORD

166514

O.H. MATERIALS CORP.			P.O. BOX 551			FINDLAY, OH 45839-0551			419-423-3526											
PROJECT NAME Camp Lejeune					PROJECT LOCATION Camp Lejeune, NC.					NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)									
PROJ. NO. 18319			PROJECT CONTACT Alan Whitt			PROJECT TELEPHONE NO. (910) 451-2599														
CLIENT'S REPRESENTATIVE VANN Marshburn					PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt															
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)					REMARKS									
1	CLJ100-Fs-029	4/18/96	1705		X	Soil at 6" from 803-802 B, 803-802 C					031									
2	CLJ100-Fs-030	4/18/96	1708		X	Soil at 6" from 802-801 B, 802-801 C					032									
3	CLJ100-Fs-031	4/18/96	1711		X	Soil at 6" from 804-803 C, 804-803 D					033									
4	CLJ100-Fs-032	4/18/96	1714		X	Soil at 6" from 803-802 C, 803-802 D					034									
5	CLJ100-Fs-032DP	4/18/96	1714		X	Duplicate Soil 803-802 C, 803-802 D					035									
6	CLJ100-Fs-033	4/18/96	1716		X	Soil at 6" from 802-801 C, 802-801 D					036									
7	CLJ100-Fs-034	4/18/96	1718		X	Soil at 6" from 804-803 D, 804-803 E					037									
8	CLJ100-Fs-035	4/18/96	1720		X	Soil at 6" from 803-802 D, 803-802 E					038									
9	CLJ100-Fs-036	4/18/96	1723		X	Soil at 6" from 802-801 D, 802-801 E					039									
10	CLJ100-Fs-037	4/18/96	1727		X	Soil at 6" from 1004-1003 A, 1004-1003 B					040									
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS										
1	1-10	Cecilia R. Aron			Claudene Bigham			4/18/96	1755	Samples Analyzed on-site										
2																				
3																				
4										SAMPLER'S SIGNATURE Cecilia R. Aron										



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166515

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526											
PROJECT NAME <i>Corp Lejeune</i>				PROJECT LOCATION <i>Corp Lejeune, N.C.</i>						NUMBER OF CONTAINERS	8080
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>				PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>							
ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)											
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				REMARKS	
1	CLJ100-FS-038	4/19/96	0832		X	Soil at 6" from 1003-1002 A, 1003-1002 B				1-4oz	
2	CLJ100-FS-039	4/19/96	0833		X	Soil at 6" from 1002-1001 A, 1002-1001 B				1-4oz	
3	CLJ100-FS-040	4/19/96	0834		X	Soil at 6" from 1004-1003 B, 1004-1003 C				1-4oz	
4	CLJ100-FS-041	4/19/96	0835		X	Soil at 6" from 1003-1002 B, 1003-1002 C				1-4oz	
5	CLJ100-FS-042	4/19/96	0836		X	Soil at 6" from 1002-1001 B, 1002-1001 C				1-4oz	
6	CLJ100-FS-043	4/19/96	0837		X	Soil at 6" from 1004-1003 C, 1004-1003 D				1-4oz	
7	CLJ100-FS-044	4/19/96	0840		X	Soil at 6" from 1003-1002 C, 1003-1002 D				1-4oz	
8	CLJ100-FS-044DP	4/19/96	0840		X	Duplicate from 1003-1002 C, 1003-1002 D				1-4oz	
9	CLJ100-FS-045	4/19/96	0841		X	Soil at 6" from 1002-1001 C, 1002-1001 D				1-4oz	
10	CLJ100-FS-046	4/19/96	0843		X	Soil at 6" from 1004-1003 D, 1004-1003 E				1-4oz	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS	
1	1-10	<i>Alan Whitt</i>			<i>Claudine Bigham</i>			4/19/96	1300	<i>Samples Analyzed on-site</i>	
2											
3											
4											
SAMPLER'S SIGNATURE											



CHAIN-OF-CUSTODY RECORD

166516

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, N.C.					
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-047	4/19/96	0845		X	Soil at 6" from 1003-1002 D, 1003-1002 E	1-4oz		
2	CLJ100-FS-048	4/19/96	0846		X	Soil at 6" from 1002-1001 D, 1002-1001 E	1-4oz		
3	CLJ100-FS-049	4/19/96	0847		X	Soil at 6" from 905-904 A, 905-904 B	1-4oz		
4	CLJ100-FS-050	4/19/96	0851		X	Soil at 6" from 904-903 A, 904-903 B	1-4oz		
5	CLJ100-FS-051	4/19/96	0853		X	Soil at 6" from 903-902 A, 903-902 B	1-4oz		
6	CLJ100-FS-052	4/19/96	0855		X	Soil at 6" from 902-901 A, 902-901 B	1-4oz		
7	CLJ100-FS-053	4/19/96	0857		X	Soil at 6" from 905-904 B, 905-904 C	1-4oz		
8	CLJ100-FS-054	4/19/96	0859		X	Soil at 6" from 904-903 B, 904-903 C	1-4oz		
9	CLJ100-FS-055	4/19/96	0905		X	Soil at 6" from 903-902 B, 903-902 C	1-4oz		
10	CLJ100-FS-056	4/19/96	0903		X	Soil at 6" from 902-901 B, 902-901 C	1-4oz		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	A. Whitt		Claudine Bigham		4/19/96	1300	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE	



CHAIN-OF-CUSTODY RECORD

166517

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Comp Lejeune		PROJECT LOCATION Comp Lejeune, N.C.	
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599	
CLIENT'S REPRESENTATIVE VANN Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt	

NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)									
	8080									
	REMARKS									

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS
1	CL5100-FS-057	4/19/96	0905		X	Soil sample AT 6" from 905-904C, 905-904D	1-4oz
2	CL5100-FS-058	4/19/96	0910		X	Soil AT 6" from 904-903C, 904-903D	1-4oz
3	CL5100-FS-058DP	4/19/96	0910		X	Duplicate Soil from 904-903C, 904-903D	1-4oz
4	CL5100-FS-059	4/19/96	0911		X	Soil AT 6" from 903-902C, 903-902D	1-4oz
5	CL5100-FS-060	4/19/96	0913		X	Soil AT 6" from 902-901C, 902-901D	1-4oz
6	CL5100-FS-061	4/19/96	0913		X	Soil AT 6" from 905-904D, 905-904E	1-4oz
7	CL5100-FS-062	4/19/96	0918		X	Soil AT 6" from 904-903D, 904-903E	1-4oz
8	CL5100-FS-063	4/19/96	0920		X	Soil AT 6" from 903-902D, 903-902E	1-4oz
9	CL5100-FS-064	4/19/96	0923		X	Soil AT 6" from 902-901D, 902-901E	1-4oz
10	CL5100-FS-065	4/19/96	0925		X	Soil AT 6" from 905-904E, 905-904F	1-4oz

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>AL Whitt</i>	<i>Claudine Bigham</i>	4/19/96	1300	Samples Analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE



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166518

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>				
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANN MARSHBURN</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
							9080	
1	CL5100-FS-066	<i>4/9/96</i>	<i>0927</i>		X	Soil AT 6" from <i>904-903 E, 904-903 F</i>	1-4oz	
2	CL5100-FS-067	<i>4/9/96</i>	<i>0930</i>		X	Soil AT 6" from <i>903-902 E, 903-902 F</i>	1-4oz	
3	CL5100-FS-068	<i>4/9/96</i>	<i>0931</i>		X	Soil AT 6" from <i>902-901 E, 902-901 F</i>	1-4oz	
4	CL5100-FS-069	<i>4/9/96</i>	<i>0933</i>		X	Soil AT 6" from <i>905-904 F, 905-904 G</i>	1-4oz	
5	CL5100-FS-070	<i>4/9/96</i>	<i>0936</i>		X	Soil AT 6" from <i>904-903 F, 904-903 G</i>	1-4oz	
6	CL5100-FS-071	<i>4/9/96</i>	<i>0940</i>		X	Soil AT 6" from <i>903-902 E, 903-902 G</i>	1-4oz	
7	CL5100-FS-072	<i>4/9/96</i>	<i>0944</i>		X	Soil AT 6" from <i>902-901 F, 902-901 G</i>	1-4oz	
8	CL5100-FS-073	<i>4/9/96</i>	<i>1401</i>		X	Soil AT 6" from <i>504-503 A, 504-503 B</i>	1-4oz	
9	CL5100-FS-074	<i>4/9/96</i>	<i>1403</i>		X	Soil AT 6" from <i>503-502 A, 503-502 B</i>	1-4oz	
10	CL5100-FS-075	<i>4/9/96</i>	<i>1400</i>		X	Soil AT 6" from <i>502-501 A, 502-501 B</i>	1-4oz	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	<i>Steven K. Grant</i>		<i>Claudia Bigham</i>		<i>4/9/96</i>	<i>1600</i>	<i>Samples Analyzed on-site</i>
2								
3								
4								<i>Steven K. Grant</i> SAMPLER'S SIGNATURE



CHAIN-OF-CUSTODY RECORD

166519

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526										
PROJECT NAME			PROJECT LOCATION							ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJECT CONTACT			PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE			PROJECT MANAGER/SUPERVISOR							
PROJECT NO.			NUMBER OF CONTAINERS							
1	CLJ100-FS-076	4/96/14/12		X	Soil at 6" from 504-503 B, 504-503 C	1-4oz	X			
2	CLJ100-FS-077	4/96/14/10		X	Soil at 6" from 503-502 B, 503-502 C	1-4oz	X			
3	CLJ100-FS-078	4/96/14/03		X	Soil at 6" from 502-501 B, 502-501 C	1-4oz	X			
4	CLJ100-FS-079	4/96/14/15		X	Soil at 6" from 504-503 C, 504-503 D	1-4oz	X			
5	CLJ100-FS-080	4/96/14/17		X	Soil at 6" from 503-502 C, 503-502 D	1-4oz	X			
6	CLJ100-FS-080DP	4/96/14/17		X	Duplicate Soil from 503-502 C, 503-502 D	1-4oz	X			
7	CLJ100-FS-081	4/96/14/19		X	Soil at 6" from 502-501 C, 502-501 D	1-4oz	X			
8	CLJ100-FS-082	4/96/14/20		X	Soil at 6" from 504-503 D, 504-503 E	1-4oz	X			
9	CLJ100-FS-083	4/96/14/22		X	Soil at 6" from 503-502 D, 503-502 E	1-4oz	X			
10	CLJ100-FS-084	4/96/14/25		X	Soil at 6" from 502-501 D, 502-501 E	1-4oz	X			
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS		
1	1-10	Steven K. Bond / Claudine Bigham				4/19/96	1600	Samples Analyzed on-site		
2										
3										
4								SAMPLER'S SIGNATURE Steven K. Bond		



Environmental Remediation Services Corp.

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

166520

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>			PROJECT LOCATION <i>Camp Lejeune, N.C.</i>						
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>			PROJECT TELEPHONE NO. <i>(910) 451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANN MARSHBURN</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-085	4/9/96			X	Soil at 6" from 405-404 A, 405-404 B	1-4oz	X	Not taken
2	CLJ100-FS-086	4/9/96			X	Soil at 6" from 404-403 A, 404-403 B	1-4oz	X	Not taken
3	CLJ100-FS-087	4/9/96	1525		X	Soil at 6" from 403-402 A, 403-402 B	1-4oz	X	
4	CLJ100-FS-088	4/9/96	1540		X	Soil at 6" from 402-401 A, 402-401 B	1-4oz	X	
5	CLJ100-FS-089	4/9/96	1526		X	Soil at 6" from 405-404 B, 405-404 C	1-4oz	X	
6	CLJ100-FS-090	4/9/96	1528		X	Soil at 6" from 404-403 B, 404-403 C	1-4oz	X	
7	CLJ100-FS-091	4/9/96	1540		X	Soil at 6" from 403-402 B, 403-402 C	1-4oz	X	
8	CLJ100-FS-092	4/9/96	1537		X	Soil at 6" from 402-401 B, 402-401 C	1-4oz	X	Not taken
9	CLJ100-FS-093	4/9/96	1530		X	Soil at 6" from 405-404 C, 405-404 D	1-4oz	X	
10	CLJ100-FS-094	4/9/96	1532		X	Soil at 6" from 404-403 C, 404-403 D	1-4oz	X	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Steve K. [Signature]</i>		<i>Claudine Bigham</i>		4/9/96	1600	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Steve K. [Signature]</i>	

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VAAN MARSHBURN</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-095	4/9/96	1516		X	Soil at 6" from 403-402 C, 403-402 D	1-4oz	X	
2	CLJ100-FS-096	4/9/96			X	Soil at 6" from 402-401 C, 402-401 D	1-4oz	X	Not taken
3	CLJ100-FS-097	4/9/96	1510		X	Soil at 6" from 405-404 D 405-404 E	1-4oz	X	
4	CLJ100-FS-098	4/9/96	1526		X	Soil at 6" from 404-403 D, 404-403 E	1-4oz	X	
5	CLJ100-FS-098DP	4/9/96	1520		X	Duplicate Soil from 404-403 D, 404-403 E	1-4oz	X	
6	CLJ100-FS-099	4/9/96	1512		X	Soil at 6" from 403-402 D, 403-402 E	1-4oz	X	
7	CLJ100-FS-100	4/9/96			X	Soil at 6" from 402-401 D, 402-401 E	1-4oz	X	Not taken
8	CLJ100-FS-101	4/9/96	1445		X	Soil at 6" from 405-404 E, 405-404 F	1-4oz	X	
9	CLJ100-FS-102	4/9/96	1448		X	Soil at 6" from 404-403 E, 404-403 F	1-4oz	X	
10	CLJ100-FS-103	4/9/96	1502		X	Soil at 6" from 403-402 E, 403-402 F	1-4oz	X	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Steve Hart</i>		<i>Claudine Bigham</i>		4/9/96	1600	Samples Analyzed on-site	
2									
3									
4								SAMPLE'S SIGNATURE <i>Steve Hart</i>	



Remediation
Services Corp.

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

166522

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-104	<i>4/19/96</i>	<i>1515</i>		X	Soil at 6" from 402-401 E 402-401 E	1-4oz	X	
2	CLJ100-FS-105	<i>4/19/96</i>	<i>1435</i>		X	Soil at 6" from 405-404 F, 405-404 G	1-4oz	X	
3	CLJ100-FS-106	<i>4/19/96</i>	<i>1437</i>		X	Soil at 6" from 404-403 F, 404-403 G	1-4oz	X	
4	CLJ100-FS-107	<i>4/19/96</i>	<i>1438</i>		X	Soil at 6" from 403-402 F, 403-402 B	1-4oz	X	
5	CLJ100-FS-108	<i>4/19/96</i>	<i>1442</i>		X	Soil at 6" from 402-401 F, 402-401 G	1-4oz	X	
6	CLJ100-FS-109	<i>4/19/96</i>	<i>1056</i>		X	Soil at 6" from 304-303 A, 304-303 B	1-4oz	X	
7	CLJ100-FS-110	<i>4/19/96</i>	<i>1057</i>		X	Soil at 6" from 303-302 A, 303-302 B	1-4oz	X	
8	CLJ100-FS-111	<i>4/19/96</i>	<i>1105</i>		X	Soil at 6" from 302-301 A, 302-301 B	1-4oz	X	
9	CLJ100-FS-112	<i>4/19/96</i>	<i>1105</i>		X	Soil at 6" from 304-303 B, 304-303 C	1-4oz	X	
10	CLJ100-FS-113	<i>4/19/96</i>	<i>1108</i>		X	Soil at 6" from 303-302 B, 303-302 C	1-4oz	X	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Steve K. D. / Claudine Biglan</i>				<i>4/19/96</i>	<i>1400</i>	<i>Samples Analyzed on-site</i>	
2									
3									
4								SAMPLE'S SIGNATURE <i>Steve K. D.</i>	

CHAIN-OF-CUSTODY RECORD

166523

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Camp Lejeune		PROJECT LOCATION Camp Lejeune, N.C.		NUMBER OF CONTAINERS 2080	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)		
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2899				
CLIENT'S REPRESENTATIVE VANN Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
ITEM NO.	SAMPLE NUMBER	DATE	TIME			COMP	GRAB

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	CS100-FS-114	4/19/96	1115		X	Soil AT 6" from 302-301 B, 302-301 C	1-4oz
2	CS100-FS-115	4/19/96	1110		X	Soil AT 6" from 304-303 C, 304-303 D	1-4oz
3	CS100-FS-116	4/19/96	1109		X	Soil AT 6" from 303-302 C, 303-302 D	1-4oz
4	CS100-FS-116DP	4/19/96	1109		X	Duplicate Soil from 303-302 C, 303-302 D	1-4oz
5	CS100-FS-117	4/19/96	1120		X	Soil AT 6" from 302-301 C, 302-301 D	1-4oz
6	CS100-FS-118	4/19/96	1114		X	Soil AT 6" from 304-303 D, 304-303 E	1-4oz
7	CS100-FS-119	4/19/96	1114		X	Soil AT 6" from 303-302 D, 303-302 E	1-4oz
8	CS100-FS-120	4/19/96	1056		X	Soil AT 6" from 302-301 D, 302-301 E	1-4oz
9	CS100-FS-121	4/19/96	1117		X	Soil AT 6" from 304-303 E, 304-303 F	1-4oz
10	CS100-FS-122	4/19/96	1120		X	Soil AT 6" from 303-302 E, 303-302 F	1-4oz

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Alan Whitt</i>	<i>Claudine Bigham</i>	4/19/96	1300	Samples Analyzed On-site
2						
3						
4						SAMPLER'S SIGNATURE

CHAIN-OF-CUSTODY RECORD

166524

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VAN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-123	<i>4/19/96</i>	<i>1058</i>		X	Soil at 6" from 302-301 E, 302-301 F	1-4oz	<i>8080</i>	
2	CLJ100-FS-124	<i>4/19/96</i>	<i>1131</i>		X	Soil at 6" from 304-303 F, 304-303 G	1-4oz		
3	CLJ100-FS-125	<i>4/19/96</i>	<i>1131</i>		X	Soil at 6" from 303-302 F, 303-302 G	1-4oz		
4	CLJ100-FS-126	<i>4/19/96</i>	<i>1100</i>		X	Soil at 6" from 302-301 F, 302-301 G	1-4oz		
5	CLJ100-FS-127	<i>4/19/96</i>	<i>1134</i>		X	Soil at 6" from 304-303 G, 304-303 H	1-4oz		
6	CLJ100-FS-128	<i>4/19/96</i>	<i>1135</i>		X	Soil at 6" from 303-302 G, 303-302 H	1-4oz		
7	CLJ100-FS-129	<i>4/19/96</i>	<i>1102</i>		X	Soil at 6" from 302-301 G, 302-301 H	1-4oz		
8	CLJ100-FS-130	<i>4/19/96</i>	<i>1136</i>		X	Soil at 6" from 304-303 H, 304-303 I	1-4oz		
9	CLJ100-FS-131	<i>4/19/96</i>	<i>1125</i>		X	Soil at 6" from 303-302 H, 303-302 I	1-4oz		
10	CLJ100-FS-131DP	<i>4/19/96</i>	<i>1125</i>		X	Duplicate Soil from 303-302 H, 303-302 I	1-4oz		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>AL Whitt</i>		<i>Claudine Bigham</i>		<i>4/19/96</i>	<i>1300</i>	<i>Samples Analyzed on-site</i>	
2									
3									
4									
								SAMPLER'S SIGNATURE	



CHAIN-OF-CUSTODY RECORD

166525

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Camp Lejewc				PROJECT LOCATION Camp Lejewc, N.C.					
PROJ. NO. 18319		PROJECT CONTACT Alan whitT		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE VAN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan whitT					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-FS-132	4/9/96	1108		X	Soil at 6" from 302-301 H, 302-301 I	1-4oz	/	
2	CLJ100-FS-133	4/9/96	1136		X	Soil at 6" from 304-303 I, 304-303 J	1-4oz	/	
3	CLJ100-FS-134	4/9/96	1126		X	Soil at 6" from 303-302 I, 303-302 J	1-4oz	/	
4	CLJ100-FS-135	4/9/96	1107		X	Soil at 6" from 302-301 I, 302-301 J	1-4oz	/	
5	CLJ100-FS-136	4/9/96	1130		X	Soil at 6" from 304-303 J, 304-303 K	1-4oz	/	
6	CLJ100-FS-137	4/9/96	1112		X	Soil at 6" from 303-302 J, 303-302 K	1-4oz	/	
7	CLJ100-FS-138	4/9/96	1112		X	Soil at 6" from 302-301 J, 302-301 K	1-4oz	/	
8								/	
9								/	
10								/	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-7	<i>A whitT</i>		<i>Claudine Bigham</i>		4/9/96	1300	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE	



CHAIN-OF-CUSTODY RECORD

166534

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Comp Lejeune				PROJECT LOCATION Comp Lejeune, N.C.					
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE VADW Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLS100-FS-139	4/23/96	1503		X	Soil at 6" from 603-602 E, 603-602 F	1-4oz	X	
2	CLS100-FS-140	4/23/96	1506		X	Soil at 6" from 604-603 A, 604-603 AA	1-4oz	X	
3	CLS100-FS-141	4/23/96	1515		X	Soil at 6" from 704-703A, 704-703 AA	1-4oz	X	
4	CLS100-FS-142	4/23/96	1512		X	Soil at 6" from 703-702A, 703-702 AA	1-4oz	X	
5	CLS100-FS-023-15	4/23/96	1517		X	Soil at 18" from 703-702A, 703-702B	1-4oz	X	
6	CLS100-FS-143	4/23/96			X	Soil at 6" from 804-803 E, 804-803 F	1-4oz	X	Sample not needed due to overlap in graph
7	CLS100-FS-144	4/23/96			X	Soil at 6" from 803-802 E, 803-802 F	1-4oz	X	Same as sample CLS100-FS-143
8	CLS100-FS-145	4/23/96	1518		X	Soil at 6" from 804-803 A, 804-803 AA	1-4oz	X	
9	CLS100-FS-146	4/23/96	1522		X	Soil at 6" from 803-802 A, 803-802 AA	1-4oz	X	
10	CLS100-FS-147	4/23/96	1526		X	Soil at 6" from 802-801 A, 802-801 AA	1-4oz	X	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	Airon R. Aron		Claudine Bigham		4/23/96	1655	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Airon R. Aron</i>	



CHAIN-OF-CUSTODY RECORD

166535

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526							
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>									
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>8080</i>							
CLIENT'S REPRESENTATIVE <i>VACW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>									
ITEM NO.		SAMPLE NUMBER		DATE				TIME					
				COMP		GRAB							
				SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)				NUMBER OF CONTAINERS					
								REMARKS					
1		CLS100-FS-148		<i>4/23/96</i>		<i>1524</i>		Soil at 6" from 801-800 C, 801-800 D 1-4oz					
2		CLS100-FS-149		<i>4/23/96</i>		<i>1529</i>		Soil at 6" from 801-800 B, 801-800 C 1-4oz					
3		CLS100-FS-150		<i>4/23/96</i>		<i>1532</i>		Soil at 6" from 801-800 A, 801-800 B 1-4oz					
4		CLS100-FS-151		<i>4/23/96</i>		<i>1520</i>		Soil at 6" from 805-804 B, 805-804 C 1-4oz					
5		CLS100-FS-152		<i>4/23/96</i>		<i>1534</i>		Soil at 6" from 805-804 A, 805-804 B 1-4oz					
6		CLS100-FS-027-15		<i>4/23/96</i>		<i>1519</i>		Soil at 18" from 804-803 D, 804-803 E 1-4oz					
7		CLS100-FS-153		<i>4/23/96</i>		<i>1540</i>		Soil at 6" from 905-904 G, 905-904 H 1-4oz					
8		CLS100-FS-154		<i>4/23/96</i>		<i>1542</i>		Soil at 6" from 904-903 G, 904-903 H 1-4oz					
9		CLS100-FS-155		<i>4/23/96</i>		<i>1543</i>		Soil at 6" from 903-902 G, 903-902 H 1-4oz					
10		CLS100-FS-156		<i>4/23/96</i>		<i>1545</i>		Soil at 6" from 901-900 D, 901-900 E 1-4oz					
TRANSFER NUMBER		ITEM NUMBER		TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE		TIME		REMARKS	
1		1-10		<i>Alan R. Swan</i>		<i>Claudine Bigham</i>		<i>4/23/96</i>		<i>1659</i>		Samples Analyzed on-site SAMPLER'S SIGNATURE <i>Alan R. Swan</i>	
2													
3													
4													



CHAIN-OF-CUSTODY RECORD

166536

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Camp Lejeune		PROJECT LOCATION Camp Lejeune, W.C.	
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599	
CLIENT'S REPRESENTATIVE VANN Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt	

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

NUMBER OF CONTAINERS

9080

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	CLJ100-FS-157	4/23/96	1546		X	Soil at 6" from 901-900 B, 901-900 C	1-4oz
2	CLJ100-FS-158	4/23/96			X	Soil at 6" from 905-904 A, 905-904 AA	1-4oz
3	CLJ100-FS-159	4/23/96	1549		X	Soil at 6" from 904-903 A, 904-903 AA	1-4oz
4	CLJ100-FS-160	4/23/96	1551		X	Soil at 6" from 903-902 A, 903-902 AA	1-4oz
5	CLJ100-FS-054-1	4/23/96	1547		X	Soil at 12" from 904-903 B, 904-903 C	1-4oz
6	CLJ100-FS-161	4/23/96	1615		X	Soil at 6" from 505-504 C, 505-504 D	1-4oz
7	CLJ100-FS-162	4/23/96	1604		X	Soil at 6" from 501-500 C, 501-500 D	1-4oz
8	CLJ100-FS-163	4/23/96	1610		X	Soil at 6" from 501-500 B, 501-500 C	1-4oz
9	CLJ100-FS-164	4/23/96	1614		X	Soil at 6" from 501-500 A, 501-500 B	1-4oz
10	CLJ100-FS-165	4/23/96	1602		X	Soil at 6" from 503-502 A, 503-502 AA	1-4oz

Sample point not needed because of overlap in grids

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Arnon R. Acan</i>	<i>Claudine Bigham</i>	4/23/96	1655	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE <i>Arnon R. Acan</i>

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, NC</i>		NUMBER OF CONTAINERS	8080	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										
OBJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>			REMARKS										
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>														
SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)										REMARKS	
<i>CLJ100-FS-166</i>	<i>4/23/96</i>	<i>1606</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 502-501A, 502-501 AA</i>										<i>1-401</i>	
<i>CLJ100-FS-074-1</i>	<i>4/23/96</i>	<i>1613</i>		<input checked="" type="checkbox"/>	<i>Soil at 12" from 503-502A, 503-502 B</i>										<i>1-402</i>	
<i>CLJ100-FS-167</i>	<i>4/23/96</i>	<i>1600</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 406-405C, 406-405 D</i>										<i>1-403</i>	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
<i>1</i>	<i>1-3</i>	<i>Alan R. Azar</i>	<i>Claudine Bighan</i>	<i>4/27/96</i>	<i>1655</i>	<i>Samples Analyzed on-site</i>
<i>2</i>						
<i>3</i>						
<i>4</i>						

SAMPLER'S SIGNATURE *Alan R. Azar*

CHAIN-OF-CUSTODY RECORD

166538

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS																
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.	CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR															
ITEM NO.	SAMPLE NUMBER	DATE	TIME				COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)													
Camp Lejeune		Camp Lejeune, N.C.					2080															
18319	Alan Whitt	(910) 451-2599	VANN Marshburn	Jim Dunn / Alan Whitt																		
1	CLJ100-FS-168	4/24/96	1025		X	Soil at 6" from 406-405 D, 406-405 E				1-4oz												
2	CLJ100-FS-169	4/24/96			X	Soil at 6" from 406-405 E, 406-405 F				1-4oz												Sample point not needed because it overlaps the grid
3	CLJ100-FS-170	4/24/96			X	Soil at 6" from 406-405 F, 406-405 G	1-4oz												Same as sample CLJ100-FS-169			
4	CLJ100-FS-171	4/24/96	1029		X	Soil at 6" from 405-404 G, 405-404 H	1-8oz															
5	CLJ100-FS-172	4/24/96	1032		X	Soil at 6" from 404-403 G, 404-403 H	1-8oz															
6	CLJ100-FS-173	4/24/96	1038		X	Soil at 6" from 403-402 G, 403-402 H	1-8oz															
7	CLJ100-FS-174	4/24/96	1036		X	Soil at 6" from 402-401 G, 402-401 H	1-8oz															
8	CLJ100-FS-175	4/24/96	1040		X	Soil at 6" from 401-400 F, 401-400 G	1-8oz															
9	CLJ100-FS-176	4/24/96	1106		X	Soil at 6" from 304-303 A, 304-303 AA	1-8oz															
10	CLJ100-FS-177	4/24/96	1102		X	Soil at 6" from 302-301 A, 302-301 AA	1-8oz															

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS RECEIVED BY	DATE	TIME	REMARKS
1	1-10	Aaron R. Acorn	[Signature]	4/24/96	12:00	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE Aaron R. Acorn

CHAIN-OF-CUSTODY RECORD

166539

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, NC.</i>		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)														
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>																
CLIENT'S REPRESENTATIVE <i>VAW Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>																	
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)													REMARKS
1	CLJ100-FS-178	<i>4/24/96</i>	<i>1055</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 301-300 A, 301-300 B</i>	<i>1-8oz</i>	<input checked="" type="checkbox"/>											
2	CLJ100-FS-085	<i>4/24/96</i>	<i>1021</i>		<input checked="" type="checkbox"/>	<i>soil at 6" from 405-404 A, 405-404 B</i>	<i>1-8oz</i>	<input checked="" type="checkbox"/>											
3	CLJ100-FS-086	<i>4/24/96</i>	<i>1023</i>		<input checked="" type="checkbox"/>	<i>soil at 6" from 404-403 A, 404-403 B</i>	<i>1-8oz</i>	<input checked="" type="checkbox"/>											
4	CLJ100-FS-092	<i>4/24/96</i>	<i>1026</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 402-401 B, 402-401 C</i>	<i>1-8oz</i>	<input checked="" type="checkbox"/>											
5	CLJ100-FS-096	<i>4/24/96</i>	<i>1028</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 402-401 C, 402-401 D</i>	<i>1-8oz</i>	<input checked="" type="checkbox"/>											
6	CLJ100-FS-100	<i>4/24/96</i>	<i>1034</i>		<input checked="" type="checkbox"/>	<i>soil at 6" from 402-401 D, 402-401 E</i>	<i>1-8oz</i>	<input checked="" type="checkbox"/>											
7																			
8																			
9																			
10																			

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-6	<i>Arcon R. Azar</i>	<i>[Signature]</i>	<i>4/24/96</i>	<i>12:00</i>	<i>Samples Analyzed on-site</i>
2						
3						
4						SAMPLER'S SIGNATURE <i>Arcon R. Azar</i>

CHAIN-OF-CUSTODY RECORD

166540

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS					
								<i>8090</i>															
1	CLJ100-FS-179	4/26/96	1525		X	Soil at 6" from 806-805 B, 806-805 C	1-4oz	X														187	
2	CLJ100-FS-180	4/26/96	1528		X	Soil at 6" from 806-805 A, 806-805 B	1-4oz	X															188
3	CLJ100-FS-181	4/26/96	1534		X	Soil at 6" from 805-804 A, 805-804 AA	1-4oz	X															189
4	CLJ100-FS-182	4/26/96	1537		X	Soil at 6" from 804-803 AA, 804-803 BB	1-4oz	X															190
5	CLJ100-FS-183	4/26/96	1543		X	Soil at 6" from 803-802 AA, 803-802 BB	1-4oz	X															191
6	CLJ100-FS-184	4/26/96	1541		X	Soil at 6" from 802-801 AA, 802-801 BB	1-4oz	X															192
7	CLJ100-FS-185	4/26/96	1610		X	Soil at 6" from 801-800 A, 801-800 AA	1-4oz	X															193
8	CLJ100-FS-186	4/26/96	1610		X	Soil at 6" from 800-799 A, 800-799 B	1-4oz	X															194
9	CLJ100-FS-027-2	4/26/96	1533		X	Soil at 24" from 804-803 D, 804-803 E	1-4oz	X															195
10	CLJ100-FS-027-25	4/26/96	1537		X	Soil at 30" from 804-803 D, 804-803 E	1-4oz	X															196

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Arnon R. Dean</i>	<i>Claudine Bigham</i>	4/26/96	1640	Samples analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE <i>Arnon R. Dean</i>

CHAIN-OF-CUSTODY RECORD

166542

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VARN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-FS-187	4/23/96	0845	X	X	Soil at 6" from 906-905 G, 906-905 H	1-4oz	X	197
2	CL5100-FS-188	4/23/96	0847	X	X	Soil at 6" from 905-904 H, 905-904 I	1-4oz	X	198
3	CL5100-FS-189	4/23/96	0855	X	X	Soil at 6" from 904-903 H, 904-903 I	1-4oz	X	199
4	CL5100-FS-05415	4/23/96	0853	X	X	Soil at 18" from 904-903 B 904-903 C	1-4oz	X	200
5	CL5100-FS-0542	4/23/96	0857	X	X	Soil at 24" from 904-903 B 904-903 C	1-4oz	X	201
6	CL5100-FS-074-15	4/23/96	0935	X	X	Soil at 18" from 503-502 A 503-502 B	1-4oz	X	202
7	CL5100-FS-074-2	4/23/96	0937	X	X	Soil at 24" from 503-502 A 503-502 B	1-4oz	X	203
8	CL5100-FS-196	4/23/96	0923	X	X	Soil at 6" from 503-502 AA, 503-502 BB	1-4oz	X	204
9	CL5100-FS-191	4/23/96	0930	X	X	Soil at 6" from 502-501 AA, 502-501 BB	1-4oz	X	205
10	CL5100-FS-192	4/23/96	0925	X	X	Soil at 6" from 501-500 A, 501-500 AA	1-4oz	X	206
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Rowan R. Dean</i>		<i>Maudine Bigham</i>		4/23/96	1100	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Rowan R. Dean</i>	

CHAIN-OF-CUSTODY RECORD

166543

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS															
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.				<div style="text-align: center; border: 1px solid black; padding: 5px;">8080</div>															
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																			
ITEM NO.	SAMPLE NUMBER	DATE	TIME									COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)							
Camp Lejeune		Camp Lejeune, N.C.																			
18319	Alan Whitt	(910) 451-2599																			
VADN Marshburn		Jim Dunn / Alan Whitt																			
1	CLJ100-FS-193	4/23/96	0931		X	Soil at 6" from 500-499 A, 500-499 B	1-4oz	X												207	
2	CLJ100-FS-194	4/23/96	1001		X	Soil at 6" from 302-301 AA, 302-301 BB	1-4oz	X													208
3	CLJ100-FS-195	4/23/96	1003		X	Soil at 6" from 301-300 A, 301-300 AA	1-4oz	X													209
4	CLJ100-FS-196	4/23/96	1005		X	Soil at 6" from 300-299 A, 300-299 B	1-4oz	X													210
5	CLJ100-FS-197	4/23/96	1007		X	Soil at 6" from 301-300 B, 301-300 C	1-4oz	X													211
6	CLJ100-FS-198	4/23/96	1009		X	Soil at 6" from 301-300 C, 301-300 D	1-4oz	X													212
7	CLJ100-FS-199	4/23/96	1010		X	Soil at 6" from 301-300 D, 301-300 E	1-4oz	X													213
8	CLJ100-FS-200	4/23/96	1012		X	Soil at 6" from 301-300 E, 301-300 F	1-4oz	X													214
9	CLJ100-FS-201	4/23/96	1014		X	Soil at 6" from 301-300 F, 301-300 G	1-4oz	X													215
10	CLJ100-FS-202	4/23/96	1015		X	Soil at 6" from 301-300 G, 301-300 H	1-4oz	X													216

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Robert R. Dean	Claudine Bigh	4/23/96	1100	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE Robert R. Dean

CHAIN-OF-CUSTODY RECORD

166544

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR								
ITEM NO.	SAMPLE NUMBER	DATE	TIME		COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
Camp Lejeune		Camp Lejeune, N.C.		4080					
18317	Alan Whitt	(910) 451-2599							
VANN Marshburn		Jim Dunn / Alan Whitt							
1	CLJ100-FS-203	4/27/96	1013			X	Soil at 6" from 301-300 H, 301-300 I'	1-4oz	217
2	CLJ100-FS-204	4/27/96	1017			X	Soil at 6" from 301-300 F, 301-300 J'	1-4oz	218
3	CLJ100-FS-205	4/27/96	1018			X	Soil at 6" from 303-302 K, 303-302 L	1-4oz	219
4	CLJ100-FS-206	4/27/96	1027			X	Soil at 6" from 406-405 B, 406-405 C	1-4oz	220
5	CLJ100-FS-207	4/27/96	1030			X	Soil at 6" from 407-406 C, 407-406 D	1-4oz	221
6	CLJ100-FS-208	4/27/96	1033			X	Soil at 6" from 401-400 C, 401-400 D	1-4oz	222
7	CLJ100-FS-209	4/27/96	1034			X	Soil at 6" from 401-400 D, 401-400 E	1-4oz	223
8	CLJ100-FS-210	4/27/96	1036		X	Soil at 6" from 401-400 G, 401-400 H	1-4oz	224	
9	CLJ100-FS-211	4/27/96	1038		X	Soil at 6" from 402-401 H, 402-401 I	1-4oz	225	
10	CLJ100-FS-212	4/27/96	1041		X	Soil at 6" from 403-402 H, 403-402 I	1-4oz	226	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Arnon R. Acen	Claudine Bighar	4/27/96	1100	Samples Analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE *Arnon R. Acen*

CHAIN-OF-CUSTODY RECORD

166545

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)											REMARKS			
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.				8080													
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR																		
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)													
1	CL5100-FS-213	4/29/96	1517	X	X	Soil at 6" from 403-402 I, 403-402 J	1-4oz	X											227
2	CL5100-FS-214	4/29/96	1519	X	X	Soil at 6" from 404-403 H, 404-403 I	1-4oz	X											228
3	CL5100-FS-215	4/29/96	1045	X	X	Soil at 6" from 401-400 E, 401-400 F	1-4oz	X											229
4	CL5100-FS-216	4/29/96	1048	X	X	Soil at 6" from 400-399 D, 400-399 E	1-4oz	X											230
5	CL5100-FS-217	4/29/96	1535	X	X	Soil at 6" from 503-502 BB, 503-502 CC	1-4oz	X											231
6	CL5100-FS-218	4/29/96	1532	X	X	Soil at 6" from 502-501 BB, 502-501 CC	1-4oz	X											232
7	CL5100-FS-219	4/29/96	1524	X	X	Soil at 6" from 504-503 A, 504-503 AA	1-4oz	X											233
8	CL5100-FS-220	4/29/96	1527	X	X	Soil at 6" from 504-503 AA, 504-503 BB	1-4oz	X											234
9	CL5100-FS-221	4/30/96	1050	X	X	Soil at 6" from 501-500 AA, 501-500 BB	1-4oz	X											235
10	CL5100-FS-222	4/30/96	1053	X	X	Soil at 6" from 500-499 A, 500-499 AA	1-4oz	X											236

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1+2, 5-8	Robert R. Acam	CEL R. Acam	4/29/96		Samples Analyzed on-site
2	3+4, 9+10		CEL R. Acam	4/30/96	11:15	
3						
4						SAMPLER'S SIGNATURE Robert R. Acam

CHAIN-OF-CUSTODY RECORD

166546

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	NUMBER OF CONTAINERS	REMARKS			
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR							
ITEM NO.	SAMPLE NUMBER	DATE	TIME				COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
Camp Lejeune		Camp Lejeune, N.C.		8080					
18319	Alan Whitt	(910) 451-2599							
VAN Marshburn		Jim Dunn / Alan Whitt							
1	CLJ100-FS-223	4/30/96	0918		X	Soil at 6" from 901-900 E, 901-900 F	1-4oz	X	237
2	CLJ100-FS-224	4/30/96	0921		X	Soil at 6" from 807-806 A, 807-806 B	1-4oz	X	238
3	CLJ100-FS-225	4/30/96	0924		X	Soil at 6" from 801-800 AA, 801-800 BB	1-4oz	X	239
4	CLJ100-FS-226	4/30/96	0935		X	Soil at 6" from 800-799 A, 800-799 AA	1-4oz	X	240
5	CLJ100-FS-227	4/30/96	0939		X	Soil at 6" from 799-798 A, 799-798 B	1-4oz	X	241
6	CLJ100-FS-228	4/30/96	0942		X	Soil at 6" from 800-799 B, 800-799 C	1-4oz	X	242
7	CLJ100-FS-229	4/30/96	1002		X	Soil at 6" from 301-300 AA, 301-300 BB	1-4oz	X	243
8	CLJ100-FS-230	4/30/96	1004		X	Soil at 6" from 300-299 A, 300-299 AA	1-4oz	X	244
9	CLJ100-FS-231	4/30/96	1007		X	Soil at 6" from 299-298 A, 299-298 B	1-4oz	X	245
10	CLJ100-FS-232	4/30/96	1021		X	Soil at 6" from 300-299 B, 300-299 C	1-4oz	X	246

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Coron R. Acan	[Signature]	4/30/96	11:10	samples analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE Coron R. Acan

CHAIN-OF-CUSTODY RECORD

166547

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dura / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-FS-233	4/30/96	1025		X	Soil at 6" from 300-299 C, 300-299 D	1-4oz.	X	247
2	CL5100-FS-234	4/30/96	1025		X	Soil at 6" from 300-299 D, 300-299 E	1-4oz	X	248
3	CL5100-FS-235	4/30/96	1028		X	Soil at 6" from 300-299 E, 300-299 F	1-4oz	X	249
4	CL5100-FS-236	4/30/96	1029		X	Soil at 6" from 300-299 F, 300-299 G	1-4oz	X	250
5	CL5100-FS-237	4/30/96	1033		X	Soil at 6" from 300-299 G, 300-299 H	1-4oz	X	251
6	CL5100-FS-238	4/30/96	1036		X	Soil at 6" from 300-299 H, 300-299 I	1-4oz	X	
7									
8									
9									
10									
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-6	<i>Caron R. Azar</i>		<i>[Signature]</i>		4/30/96	11:10	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Caron R. Azar</i>	

CHAIN-OF-CUSTODY RECORD

166548

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS			
								8080													
1	CLJ100-FS-239	5/1/96	1100		X	Soil at 6" from 505-504 A, 505-504 AA	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	263 262
2	CLJ100-FS-240	5/1/96	1103		X	Soil at 6" from 505-504 AA, 505-504 BB	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	264 263
3	CLJ100-FS-241	5/1/96	1107		X	Soil at 6" from 504-503 BB, 504-503 CC	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	265 264
4	CLJ100-FS-242	5/1/96	1250		X	Soil at 6" from 503-502 CC, 503-502 DD	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	266 265
5	CLJ100-FS-243	5/1/96	1339		X	Soil at 6" from 502-501 CC, 502-501 DD	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	267 266
6	CLJ100-FS-244	5/1/96	1344		X	Soil at 6" from 501-500 BB, 501-500 CC	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	268 267
7	CLJ100-FS-245	5/1/96	1350		X	Soil at 6" from 500-499 AA, 500-499 BB	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	269 268
8	CLJ100-FS-245DP	5/1/96	1103		X	Duplicate Soil from 505-504 AA, 505-504 BB	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	270 269
9	CLJ100-FS-245DP	5/1/96	1350		X	Duplicate Soil from 500-499 AA, 500-499 BB	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	271 270
10	CLJ100-FS-246	5/1/96	0936		X	Soil at 6" from 801-800 BB, 801-800 CC	1-4oz	X	X	X	X	X	X	X	X	X	X	X	X	X	272 271

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Arnon R. Acorn</i>	<i>Claudine Bigham</i>	5/1/96	1445	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE <i>Arnon R. Acorn</i>

CHAIN-OF-CUSTODY RECORD

166549

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS					
								/ / / / / / / / / / / /															
1	CL5100-FS-246D	5/1/96	0936		X	Duplicate Soil from 801-800BB, 801-800 CC	1-4oz	X														253	
2	CL5100-FS-247	5/1/96	0940		X	Soil at 6" from 800-799AA, 800-799 BB	1-4oz	X															254
3	CL5100-FS-248	5/1/96	0946		X	Soil at 6" from 799-799A, 799-798 AA	1-4oz	X															255
4	CL5100-FS-249	5/1/96	0959		X	Soil at 6" from 798-797A, 798-797 B	1-4oz	X															256
5	CL5100-FS-250	5/1/96	1002		X	Soil at 6" from 799-798B, 799-798 C	1-4oz	X															257
6	CL5100-FS-251	5/1/96	1008		X	Soil at 6" from 800-799C, 800-799D	1-4oz	X															258
7	CL5100-FS-251D	5/1/96	1008		X	Duplicate Soil from 800-799C, 800-799 D	1-4oz	X															259
8	CL5100-FS-252	5/1/96	1020		X	Soil at 6" from 803-802BB, 803-802 CC	1-4oz	X															260
9	CL5100-FS-253	5/1/96	1023		X	Soil at 6" from 802-801BB, 802-801 CC	1-4oz	X															261
10																							262 CB

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-9	<i>Alan R. Azan</i>	<i>[Signature]</i>	5/1/96	13:30	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE <i>Alan R. Azan</i>

CHAIN-OF-CUSTODY RECORD

166550

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS																					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.																									
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																									
ITEM NO.	SAMPLE NUMBER	DATE	TIME									COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)													
Camp Lejeune		Camp Lejeune, NC.		2080																							
18319	Alan Whitt	(910) 451-2599																									
VAND Marshburn		Jim Durr / Alan Whitt																									
1	CLJ100-FS-246 254	5/1/96	1609										X	Soil at 6" from 301-300BB, 301-300 CC	1-4oz	X											272
2	CLJ100-FS-249 255	5/1/96	1614										X	Soil at 6" from 300-299AA, 300-299 BB	1-4oz	X											273
3	CLJ100-FS-249 256	5/1/96	1620										X	Soil at 6" from 299-298A, 299-298 AA	1-4oz	X											274
4	CLJ100-FS-249 256 DP	5/1/96	1620										X	Duplicate soil from 299-298A, 299-298 AA	1-4oz	X											275
5	CLJ100-FS-249 257	5/1/96	1625										X	Soil at 6" from 299-298B, 299-298 C	1-4oz	X											276
6	CLJ100-FS-249 258	5/1/96	1630										X	Soil at 6" from 299-298C, 299-298 D	1-4oz	X											277
7	CLJ100-FS-259 259	5/1/96	1634										X	Soil at 6" from 299-298D, 299-298 E	1-4oz	X											278
8	CLJ100-FS-262 260	5/1/96	1642		X	Soil at 6" from 299-298E, 299-298 F	1-4oz	X											279								
9	CLJ100-FS-263 261	5/1/96	1646		X	Soil at 6" from 299-298F, 299-298 G	1-4oz	X											280								
10	CLJ100-FS-264 262	5/1/96	1656		X	Soil at 6" from 299-298G, 299-298 H	1-4oz	X											281								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Arnon R. Acun	Claudine Bigh	5/1/96	1730	Samples analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE Arnon R. Acun

CHAIN-OF-CUSTODY RECORD

166552

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VAN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS
								/										
1	CLJ100-FS-254	5/1/96	1609		X	Soil at 6" from 301-300 BB, 301-300 CC	1-4oz	/										
2	CLJ100-FS-255	5/1/96	1614		X	Soil at 6" from 300-299 AA, 300-299 BB	1-4oz	/										
3	CLJ100-FS-256	5/1/96	1620		X	Soil at 6" from 299-298 A, 299-298 AA	1-4oz	/										
4	CLJ100-FS-256A	5/1/96	1620		X	Duplicate Soil from 299-298 A, 299-298 AA	1-4oz	/										
5	CLJ100-FS-257	5/1/96	1625		X	Soil at 6" from 299-298 B, 299-298 C	1-4oz	/										
6	CLJ100-FS-258	5/1/96	1630		X	Soil at 6" from 299-298 C, 299-298 D	1-4oz	/										
7	CLJ100-FS-259	5/1/96	1634		X	Soil at 6" from 299-298 D, 299-298 E	1-4oz	/										
8	CLJ100-FS-260	5/1/96	1642		X	Soil at 6" from 299-298 E, 299-298 F	1-4oz	/										
9	CLJ100-FS-261	5/1/96	1646		X	Soil at 6" from 299-298 F, 299-298 G	1-4oz	/										
10	CLJ100-FS-262	5/1/96	1656		X	Soil at 6" from 299-298 G, 299-298 H	1-4oz	/										

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Alan R. Acorn</i>		5/1/96		<i>Samples Analyzed on-site</i>
2						
3						
4						

SAMPLER'S SIGNATURE *Alan R. Acorn*

CHAIN-OF-CUSTODY RECORD

166553

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune N.C.</i>		NUMBER OF CONTAINERS <i>3/30</i>	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>19319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910)451-2599</i>			
CLIENT'S REPRESENTATIVE <i>Yann Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>			

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS
1	CL1700-FS-263	5/1/96	1652		X	Soil at 6" from 299-298 H, 299-298 I	1-4oz
2	CL1700-FS-264	5/1/96	1705		X	Soil at 6" from 300-299 I, 300-299 J	1-8oz
3	CL1700-FS-264 Dp	5/1/96	1705		X	Duplicate Soil from 300-299 I, 300-299 J	1-8oz
4							
5							
6							
7							
8							
9							
10							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-3	<i>Caron R. Adam</i>		5/1/96		<i>Samples Analyzed on-site</i>
2						
3						
4						

SAMPLER'S SIGNATURE *Caron R. Adam*

CHAIN-OF-CUSTODY RECORD

166551

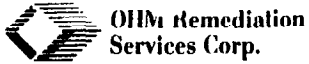
O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526														
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>																
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>																
CLIENT'S REPRESENTATIVE <i>YANN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>																
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS		
								8080												
1	CLJ100-FS-263 <i>CLJ100-FS-263</i>	<i>5/1/96</i>	<i>1652</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 299-298 H, 299-298 I</i>	<i>1-407</i>	<input checked="" type="checkbox"/>												<i>282</i>
2	CLJ100-FS-264 <i>CLJ100-FS-264</i>	<i>5/1/96</i>	<i>1705</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 300-299 I, 300-299 J</i>	<i>1-802</i>	<input checked="" type="checkbox"/>												<i>283</i>
3	CLJ100-FS-265 <i>CLJ100-FS-265</i>	<i>5/1/96</i>	<i>1705</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 300-299 I, 300-299 J</i>	<i>1-802</i>	<input checked="" type="checkbox"/>												<i>284</i>
4																				
5																				
6																				
7																				
8																				
9																				
10																				

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	<i>1-3</i>	<i>Doreen R. Acorn</i>	<i>Claudine Bisha</i>	<i>5/1/96</i>	<i>1730</i>	<i>Samples Analyzed on-site</i>
2						
3						
4						
						SAMPLER'S SIGNATURE <i>Doreen R. Acorn</i>

CHAIN-OF-CUSTODY RECORD

166554

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn/Alan Whitt</i>					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-FS-265	5/2/96	1100		X	Soil at 6" from 506-505 AA, 506-505 BB	1-8oz	X	285
2	CL5100-FS-266	5/2/96	1104		X	Soil at 6" from 505-504 BB, 505-504 CC	1-8oz	X	286
3	CL5100-FS-267	5/2/96	1106		X	Soil at 6" from 504-503 CC, 504-503 DD	1-8oz	X	287
4	CL5100-FS-268	5/2/96	1110		X	Soil at 6" from 503-502 DD, 503-502 EE	1-8oz	X	288
5	CL5100-FS-268DP	5/2/96	1110		X	Duplicate Soil from 503-502 DD, 503-502 EE	1-8oz	X	289
6	CL5100-FS-269	5/2/96	1114		X	Soil at 6" from 501-500 CC, 501-500 DD	1-8oz	X	290
7	CL5100-FS-270	5/2/96	1119		X	Soil at 6" from 500-499 BB, 500-499 CC	1-8oz	X	291
8	CL5100-FS-271	5/3/96	1123		X	Soil at 6" from 499-498 AA, 499-498 BB	1-8oz	X	292
9	CL5100-FS-272	5/2/96	1147		X	Soil at 6" from 804-803 BB, 804-803 CC	1-8oz	X	293
10	CL5100-FS-273	5/2/96	1150		X	Soil at 6" from 803-802 CC, 803-802 DD	1-8oz	X	294
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Coron R. Acen</i>		<i>Claudine Bigham</i>		5/2/96	1230	Samples analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Coron R. Acen</i>	



CHAIN-OF-CUSTODY RECORD

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Form 0019
Field Technical Services
Rev. 08/89

166555

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS			
PROJ NO	PROJECT CONTACT	PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR							
ITEM NO.	SAMPLE NUMBER	DATE	TIME				COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
Camp Lejeune		Camp Lejeune N.C.		8080	X	X			
18319	Alan Whitt	(910) 451-2599							
VANN marshburn		Jim Dunn / Alan Whitt							
1	CLJ100-FS-274	5/2/96	1153		X	Soil at 6" from 802-801 CC, 802-801 DD	1-802	X	295
2	CLJ100-FS-274DP	5/2/96	1153		X	Duplicate. Soil from 802-801 CC, 802-801 DD	1-802	X	296
3	CLJ100-FS-275	5/2/96	1156		X	Soil at 6" from 801-800 CC, 801-800 DD	1-802	X	297
4	CLJ100-FS-276	5/3/96	1159		X	Soil at 6" from 800-799 BB, 800-799 CC	1-802	X	298
5	CLJ100-FS-277	5/2/96	1202		X	Soil at 6" from 798-797 B, 798-797 C	1-802	X	299
6	CLJ100-FS-278	5/2/96	1204		X	Soil at 6" from 799-798 C, 799-798 D	1-802	X	300
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-6	Deon R. Acen	Claudine Bigham	5/2/96	1230	Samples analyzed on-site
2						
3						
4						
						SAMPLER'S SIGNATURE
						Deon R. Acen

CHAIN-OF-CUSTODY RECORD

166558

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR							
ITEM NO.	SAMPLE NUMBER	DATE	TIME		COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
Camp Lejeune		Camp Lejeune, NC.		2080					
18319	Alan Whit	(910) 451-2599							
V Ann Marshburn		Jim Dowd / Alan Whit							
1	CLJ100-FS-279	5/3/96	1007			X	Soil at 6" from 506-505 BB, 506-505 CC	1-8oz	301
2	CLJ100-FS-280	5/3/96	1010			X	Soil at 6" from 505-504 CC, 505-504 DD	1-8oz	302
3	CLJ100-FS-281	5/3/96	1013			X	Soil at 6" from 504-503 DD, 504-505 EE	1-8oz	303
4	CLJ100-FS-282	5/3/96	1016			X	Soil at 6" from 503-502 EE, 503-502 FF	1-8oz	304
5	CLJ100-FS-283	5/3/96	1018			X	Soil at 6" from 502-501 DD, 502-501 EE	1-8oz	305
6	CLJ100-FS-284	5/3/96	1021			X	Soil at 6" from 501-500 DD, 501-500 EE	1-8oz	306
7	CLJ100-FS-285	5/3/96	1024			X	Soil at 6" from 500-499 CC, 500-499 DD	1-8oz	307
8	CLJ100-FS-286	5/3/96	1036		X	Soil at 6" from 499-498 BB, 499-498 CC	1-8oz	308	
9	CLJ100-FS-287	5/3/96	1032		X	Soil at 6" from 498-497 AA, 498-497 BB	1-8oz	309	
10	CLJ100-FS-288	5/3/96	1040		X	Soil at 6" from 499-498 A, 499-498 AA	1-8oz	310	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Aaron R. Acorn	Claudine Bigham	5/3/96	1100	Samples Analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE *Aaron R. Acorn*

CHAIN-OF-CUSTODY RECORD

166559

O. H. MATERIALS CORP.		P. O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VAN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLT100-FS-299	5/3/96	1310		X	Soil at 6" from 300-299 BB, 300-299 CC	1-8oz	X	321 311
2	CLT100-FS-290	5/3/96	1316		X	Soil at 6" from 299-298 AA, 299-298 BB	1-8oz	X	322 312
3	CLT100-FS-291	5/3/96	1318		X	Soil at 6" from 298-297 A, 298-297 AA	1-8oz	X	323 313
4	CLT100-FS-292	5/3/96	1312		X	Soil at 6" from 298-297 B, 298-297 C	1-8oz	X	324 314
5	CLT100-FS-293	5/3/96	1322		X	Soil at 6" from 298-297 C, 298-297 D	1-8oz	X	325 315
6	CLT100-FS-294	5/3/96	1325		X	Soil at 6" from 298-297 D, 298-297 E	1-8oz	X	326 316
7	CLT100-FS-295	5/3/96	1324		X	Soil at 6" from 298-297 F, 298-297 G	1-8oz	X	327 317
8	CLT100-FS-296	5/3/96	1330		X	Soil at 6" from 298-297 G, 298-297 H	1-8oz	X	328 318
9	CLT100-FS-297	5/3/96	1337		X	Soil at 6" from 298-297 H, 298-297 I	1-8oz	X	329 319
10	CLT100-FS-298	5/3/96	1342		X	Soil at 6" from 299-298 I, 299-298 J	1-8oz	X	330 320
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Caron R. Azam</i>		<i>Claudine Bigham</i>		5/3/96	1445	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Caron R. Azam</i>	

CHAIN-OF-CUSTODY RECORD

166560

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	NUMBER OF CONTAINERS					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.								
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR								
ITEM NO.	SAMPLE NUMBER	DATE	TIME			COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS	
Camp Lejeune		Camp Lejeune, NC		8080	8080	18319 Alan Whitt (910) 451-2599				
VANN Marshburn		Jim Dunn / Alan Whitt								
1	CLJ100-FS-299	5/3/96	1410				X	Soil at 6" from 803-802 DD, 803-802 EE	1-8oz	331 321
2	CLJ100-FS-300	5/3/96	1412				X	Soil at 6" from 802-801 DD, 802-801 EE	1-8oz	332 322
3	CLJ100-FS-301	5/3/96	1414		X	Soil at 6" from 801-800 DD, 801-800 EE	1-8oz	333 323		
4	CLJ100-FS-302	5/3/96	1417		X	Soil at 6" from 800-799 CC, 800-799 DD	1-8oz	334 324		
5	CLJ100-FS-303	5/3/96	1420		X	Soil at 6" from 797-796 B, 797-796 C	1-8oz	335 325		
6	CLJ100-FS-304	5/3/96	1422		X	Soil at 6" from 798-797 C, 798-797 D	1-8oz	336 326		
7										
8										
9										
10										

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-6	Aaron R. Acorn	Claudine Bigham	5/3/96	1445	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE Aaron R. Acorn

CHAIN-OF-CUSTODY RECORD

166561

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)					
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR								
Camp Lejeune		Camp Lejeune, N.C.		8080					
18319	Alan Whitt	(910) 451-2599							
VADW marshburn		Jim Dunn / Alan Whitt							
ITEM NO.	SAMPLE NUMBER	DATE	TIME		COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	CL5100-FS-305	5/4/96	1147			X	Soil at 6" from 299-298 BB, 299-298 CC	1-4 oz	326 327
2	CL5100-FS-305PP	5/4/96	1147			X	Duplicate soil from 299-298 BB, 299-298 CC	1-4 oz	328 328
3	CL5100-FS-306	5/4/96	1153			X	Soil at 6" from 298-297 AA, 298-297 BB	1-4 oz	328 329
4	CL5100-FS-307	5/4/96	1207			X	Soil at 6" from 297-296 A, 297-296 AA	1-4 oz	329 330
5	CL5100-FS-308	5/4/96	1217			X	Soil at 6" from 298-297 A, 298-297 B	1-4 oz	330 331
6	CL5100-FS-309	5/4/96	1215			X	Soil at 6" from 297-296 B, 297-296 C	1-4 oz	331 332
7	CL5100-FS-310	5/4/96	1212		X	Soil at 6" from 297-296 C, 297-296 D	1-4 oz	332 333	
8	CL5100-FS-311	5/4/96	1210		X	Soil at 6" from 297-296 D, 297-296 E	1-4 oz	333 334	
9	CL5100-FS-312	5/4/96	1205		X	Soil at 6" from 298-297 E, 298-297 F	1-4 oz	333 335	
10	CL5100-FS-313	5/4/96	1202		X	Soil at 6" from 297-296 E, 297-296 G/A	1-4 oz	336	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Alan R. Ann	Claudine Bifer	5/4/96	12:50	Samples Analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE

Alan R. Ann

CHAIN-OF-CUSTODY RECORD

166562

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whit</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>Vann Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whit</i>	

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
8080

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	CLJ100-FS-314	5/4/96	1158		X	Soil at 6" from 297-296 H, 297-296 F	1-4 oz	337
2	CLJ100-FS-315	5/4/96	1154		X	Soil at 6" from 298-297 F, 298-297 J	1-4 oz	338
3	CLJ100-FS-316	5/4/96	0945		X	Soil at 6" from 504-503 EE, 504-503 FF	1-4 oz	339
4	CLJ100-FS-316DP	5/4/96	0945		X	Duplicate Soil from 504-503 EE, 504-503 FF	1-4 oz	340
5	CLJ100-FS-317	5/4/96	10947		X	Soil at 6" from 503-502 FF, 503-502 GG	1-4 oz	341
6	CLJ100-FS-318	5/4/96	0950		X	Soil at 6" from 502-501 EE, 502-501 FF	1-4 oz	342
7	CLJ100-FS-319	5/4/96	0954		X	Soil at 6" from 500-499 DD, 500-499 EE	1-4 oz	343
8	CLJ100-FS-320	5/4/96	1001		X	Soil at 6" from 499-498 CC, 499-498 DD	1-4 oz	344
9	CLJ100-FS-321	5/4/96	1010		X	Soil at 6" from 498-497 BB, 498-497 CC	1-4 oz	345
10	CLJ100-FS-322	5/4/96	1019		X	Soil at 6" from 507-506 BB, 507-506 CC	1-4 oz	346

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Alan R. Dunn</i>	<i>Claudia Bigam</i>	5/4/96	1250	Samples Analyzed on-site
2						
3						
4						SAMPLER'S SIGNATURE <i>Alan R. Dunn</i>

CHAIN-OF-CUSTODY RECORD

166563

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, N.C.</i>	
PROJ. NO. <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VAnn Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Duns / Alan Whitt</i>	

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)

8080

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	CLJ100-FS-323	5/4/96	1018		X	Soil at 6" from 506-505 CC, 506-505 DD	1-4oz	347
2	CLJ100-FS-324	5/4/96	1007		X	Soil at 6" from 505-504 DD, 505-504 EE	1-4oz	348
3	CLJ100-FS-325	5/4/96	1015		X	Soil at 6" from 497-496 AA, 497-496 BB	1-4oz	349
4	CLJ100-FS-326	5/4/96	1113		X	Soil at 6" from 803-802 EE, 803-802 FF	1-4oz	350
5	CLJ100-FS-327	5/4/96	1116		X	Soil at 6" from 802-801 EE, 802-801 FF	1-4oz	351
6	CLJ100-FS-328	5/4/96	1118		X	Soil at 6" from 800-799 DD, 800-799 EE	1-4oz	352
7	CLJ100-FS-329	5/4/96	1121		X	Soil at 6" from 799-798 CC, 799-798 DD	1-4oz	353
8	CLJ100-FS-293-2	5/4/96	1224		X	Soil at 2' from 298-297 C, 298-297 D	1-4oz	354
9								
10								

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	<i>Caron R. Dean</i>	<i>Claudine Bigham</i>	5/4/96	1140	<i>Samples analyzed on-site</i>
2						
3						
4						

SAMPLER'S SIGNATURE *Caron R. Dean*

CHAIN-OF-CUSTODY RECORD

166565

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME CAMP Lejeune				PROJECT LOCATION Camp Lejeune, NC.				
PROJ. NO. 19319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">8080</div>		
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB			SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
1	CLJ100-FS-330	5/5/96	1119		X	Soil at 6" from 297-296AA, 297-296BB	1-4oz	355
2	CLJ100-FS-331	5/5/96	1135		X	Soil at 6" from 296-295A, 296-295AA	1-4oz	356
3	CLJ100-FS-332	5/5/96	1132		X	Soil at 6" from 297-296A, 297-296B	1-4oz	357
4	CLJ100-FS-333	5/5/96	1129		X	Soil at 6" from 296-295B, 296-295C	1-4oz	358
5	CLJ100-FS-334	5/5/96	1125		X	Soil at 6" from 296-295C, 296-295D	1-4oz	360 359
6	CLJ100-FS-335	5/5/96	1122		X	Soil at 6" from 297-296E, 297-296F	1-4oz	360
7	CLJ100-FS-336	5/5/96	1019		X	Soil at 6" from 507-506AA, 507-506BB	1-4oz	361
8	CLJ100-FS-337	5/5/96	1047		X	Soil at 6" from 508-507BB, 508-507CC	1-4oz	362
9	CLJ100-FS-338	5/5/96	1043		X	Soil at 6" from 507-506CC, 507-506DD	1-4oz	363
10	CLJ100-FS-339	5/5/96	1030		X	Soil at 6" from 502-501FF, 502-501GG	1-4oz	364
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	Aaron R. Dean		Claudine Bigham		5/5/96	1200	Samples Analyzed on-site
2								
3								
4								
								SAMPLER'S SIGNATURE <i>Aaron R. Dean</i>



CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP. P.O. BOX 551 FINDLAY, OH 45839-0551 419-423-3526

PROJECT NAME *Camp Lejeune* PROJECT LOCATION *Camp Lejeune, NC.*
 PROJ. NO. *18319* PROJECT CONTACT *Alan Whitte* PROJECT TELEPHONE NO. *(910) 451-2599*
 CLIENT'S REPRESENTATIVE *Varn Marshburn* PROJECT MANAGER/SUPERVISOR *Jim Dunn / Alan Whitte*

ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
 2020

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	CLJ100-FS-340	5/5/96	1039	X	X	Soil at 6" from 501-500 EE, 501-500 FF	1-4oz	365
2	CLJ100-FS-341	5/5/96	1021	X	X	Soil at 6" from 499-498 DD, 499-498 EE	1-4oz	366
3	CLJ100-FS-342	5/5/96	1026	X	X	Soil at 6" from 498-497 CC, 498-497 DD	1-4oz	367
4	CLJ100-FS-343	5/5/96	1035	X	X	Soil at 6" from 497-496 BB, 497-496 CC	1-4oz	368
5	CLJ100-FS-344	5/5/96	0933	X	X	Soil at 6" from 799-798 BB, 799-798 CC	1-4oz	369
6	CLJ100-FS-345	5/5/96	0937	X	X	Soil at 6" from 798-797 CC, 798-797 DD	1-4oz	370
7	CLJ100-FS-346	5/5/96	0940	X	X	Soil at 6" from 799-798 DD, 799-798 EE	1-4oz	371
8	CLJ100-FS-347	5/5/96	0934	X	X	Soil at 6" from 801-800 EE, 801-800 FF	1-4oz	372
9	CLJ100-FS-348	5/5/96	0948	X	X	Soil at 6" from 802-801 FF, 802-801 GG	1-4oz	373
10	CLJ100-FS-349	5/5/96	0943	X	X	Soil at 6" from 803-802 FF, 803-802 GG	1-4oz	374

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Aaron R. Dean</i>	<i>Claudine Dighan</i>	5/5/96	1100	Samples analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE *Aaron R. Dean*



CHAIN-OF-CUSTODY RECORD

166567

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526											
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>													
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910)457-2599</i>													
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>													
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)									
								REMARKS									
1	CLJ100-FS-350	5/6/96	0939		X	Soil at 6" from 508-507 AA, 508-507 BB	1-4oz	/								375	
2	CLJ100-FS-351	5/6/96	0944		X	Soil at 6" from 509-508 BB, 509-508 CC	1-4oz	/								376	
3	CLJ100-FS-351Dp	5/6/96	0944		X	Duplicate Soil from 509-508 BB, 509-508 CC	1-4oz	/								377	
4	CLJ100-FS-352	5/6/96	0950		X	Soil at 6" from 508-507 CC, 508-507 DD	1-4oz	/								378	
5	CLJ100-FS-353	5/6/96	1010		X	Soil at 6" from 497-496 CC, 497-496 DD	1-4oz	/								379	
6	CLJ100-FS-354	5/6/96	1020		X	Soil at 6" from 496-495 BB, 496-495 CC	1-4oz	/								380	
7	CLJ100-FS-355	5/6/96	1115		X	Soil at 6" from 800-799 EE, 800-799 FF	1-4oz	/								381	
8	CLJ100-FS-356	5/6/96	1123		X	Soil at 6" from 801-800 FF, 801-800 GG	1-4oz	/								382	
9	CLJ100-FS-356Dp	5/6/96	1123		X	Duplicate Soil from 801-800 FF, 801-800 GG	1-4oz	/								383	
10	CLJ100-FS-357	5/6/96	1125		X	Soil at 6" from 803-802 GG, 803-802 HH	1-4oz	/								384	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY			TRANSFERS ACCEPTED BY			DATE	TIME	REMARKS							
1	1-10	<i>Arnon R. Awan</i>			<i>Claudine Bigham</i>			5/6/96	1200	Samples Analyzed on-site							
2																	
3																	
4										SAMPLER'S SIGNATURE <i>Arnon R. Awan</i>							



CHAIN-OF-CUSTODY RECORD

166541

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME <i>Camp Lejeune</i>			PROJECT LOCATION <i>Camp Lejeune, NC</i>			NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
PROJ NO <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>			PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS	
1	CLJ100-FS-022	<i>4/18/96</i>	<i>1634</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 702-701 A, 702-701 B</i>	<i>1-4oz</i>	
2	CLJ100-FS-023	<i>4/18/96</i>	<i>1635</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 703-702 A, 703-702 B</i>	<i>1-4oz</i>	
3	CLJ100-FS-033	<i>4/18/96</i>	<i>1716</i>		<input checked="" type="checkbox"/>	<i>Soil at 6" from 804-803 B, 804-803 C</i>	<i>1-4oz</i>	
4								
5								
6								
7								
8								
9								
10								
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	<i>1-3</i>	<i>Carol R. Acam</i>		<i>FED-EX 6921491264</i>		<i>4/24/96</i>	<i>1700</i>	<p style="text-align: center;">Samples Sent To CKY INC. 24 hour T.A.T. Please fax results TO [(910) 451-1809] Thanks. SAMPLER'S SIGNATURE <i>Carol R. Acam</i></p>
2								
3								
4								



CHAIN-OF-CUSTODY RECORD

TRANSFER 2

Form 0019
Field Technical Services
Rev. 06/89

96D042 LI

166541

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>			PROJECT LOCATION <i>Camp Lejeune, NC</i>						
PRJ. NO <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>			PROJECT TELEPHONE NO. <i>(910) 451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANA! MUSE/buin</i>				PROJECT MANAGER/SUPERVISOR <i>Jim DIND! Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-FS-022	1/18/96	1634		X	Soil at 6' from 702-701A, 702-701B	1-402	X	TCL PST 8080 T=3cy
2	CL5100-FS-023	1/18/96	1635		X	Soil at 6' from 703-702A, 703-702B	1-402	X	
3	CL5100-FS-033	1/18/96	1716		X	Soil at 6' from 804-803B, 804-803C	1-402	X	
4									
5									
6									
7									
8									
9									
10									
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-3	<i>Orion R. Acam</i>		FED-EX 6921491264		1/21/96	1700	Samples sent to	
2				<i>J. Patel</i>		1/25/96	10:00 AM	CKY INC. 24 hour T.A.T.	
3								Please fax results to (910) 451-1809	
4								Thanks. SAMPLER'S SIGNATURE <i>Orion R. Acam</i>	



Remediation
Services Corp.

CHAIN-OF-CUSTODY RECORD

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Form 0019
Field Technical Services
Rev. 08/89

166568

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, N.C.					
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE VANW Marshburn				PROJECT MANAGER/SUPERVISOR Jim. Dunn / Alan Whitt					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-001	5/29/96	1440		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	NEESA - LEFT AG
2	CL5100-CS-002	5/29/96	1445		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
3	CL5100-CS-003	5/29/96	1451		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
4	CL5100-CS-004	5/29/96	1503		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
5	CL5100-CS-005	5/29/96	1507		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
6	CL5100-CS-006	5/29/96	1512		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
7	CL5100-CS-007	5/29/96	1531		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
8	CL5100-CS-008	5/29/96	1536		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
9	CL5100-CS-009	5/29/96	1538		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
10	CL5100-CS-010	5/29/96	1545		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	Aron R. Aron		[Signature]		5/29/96	17:30	Samples Analyzed on-site	
2									
3									
4									
								SAMPLER'S SIGNATURE Aron R. Aron	

CHAIN-OF-CUSTODY RECORD

166570

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, N.C.					
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 457-2599					
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-010 DP	5/29/96	1545		X	Duplicate Confirmation Sample from AOC 1-12 Base	1-4oz	X	
2	CL5100-CS-011	5/29/96	1549		X	Confirmation Sample from AOC 1-12 Sidewall	1-4oz	X	
3	CL5100-CS-012	5/29/96	1552		X	Confirmation Sample from AOC 1-12 Sidewall	1-4oz	X	
4	CL5100-CS-013	5/29/96	1559		X	Confirmation Sample from AOC 1-12 Sidewall	1-4oz	X	
5	CL5100-CS-014	5/29/96	1600		X	Confirmation Sample from AOC 1-12 side wall	1-4oz	X	
6									
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-5	Corcoran R. Acorn	[Signature]	5/29/96	17/30	Samples Analyzed on-site
2						
3						
4						

SAMPLER'S SIGNATURE
Corcoran R. Acorn

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526																	
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, N.C.																			
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599																			
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt																			
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS					
								8080															
1	CLJ100-CS-015	5/30/96	1328		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X															
2	CLJ100-CS-016	5/30/96	1333		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X															
3	CLJ100-CS-017	5/30/96	1335		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X															
4	CLJ100-CS-018	5/30/96	1341		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X															
5	CLJ100-CS-019	5/30/96	1346		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X															
6	CLJ100-CS-020	5/30/96	1353		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X															
7	CLJ100-CS-020pp	5/30/96	1353		X	Confirmation Sample from AOC 33-38 Sidewall Duplicate	1-4oz	X															
8	CLJ100-CS-021	5/30/96	1358		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X															
9	CLJ100-CS-022	5/30/96	1403		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X															
10	CLJ100-CS-023	5/30/96	1408		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X															
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS															
1	1-10	Cecilia R. Dean		C. Rangel		5/30/96	15:48	Samples Analyzed on-site															
2																							
3																							
4								SAMPLER'S SIGNATURE <i>Cecilia R. Dean</i>															



CHAIN-OF-CUSTODY RECORD

166576

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, N.C.</i>				
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan White</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan White</i>				
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-024	5/30/96	1412		X	Confirmation Sample from AOC 39-42 Base	1-4oz	
2	CL5100-CS-025	5/30/96	1414		X	Confirmation Sample from AOC 39-42 Sidewall	1-4oz	
3	CL5100-CS-026	5/30/96	1417		X	Confirmation Sample from AOC 25-28 Base	1-4oz	
4	CL5100-CS-027	5/30/96	1420		X	Confirmation Sample from AOC 25-28 Sidewall	1-4oz	
5	CL5100-CS-028	5/30/96	1423		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz	
6	CL5100-CS-029	5/30/96	1426		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz	
7	CL5100-CS-030	5/30/96	1430		X	Confirmation Sample from AOC 29-32 Base	1-4oz	
8	CL5100-CS-030DP	5/30/96	1430		X	Confirmation Sample from AOC 29-32 Base Duplicate	1-4oz	
9								
10								
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-8	<i>Corcoran R. Acun</i>		<i>CE Rangel</i>		5/30/96	15:48	Samples Analyzed on-site
2								
3								
4								SAMPLER'S SIGNATURE <i>Corcoran R. Acun</i>



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CHAIN-OF-CUSTODY RECORD

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166579

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526				
PROJECT NAME				PROJECT LOCATION						
PROJ. NO.		PROJECT CONTACT		PROJECT TELEPHONE NO.		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)			
CLIENT'S REPRESENTATIVE				PROJECT MANAGER/SUPERVISOR						
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB			SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS	
Camp Lejeune				Camp Lejeune, NC				5080	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
18319		Alan Whitt		(910) 451-1809						
VANN Marshburn				Jim Dunn / Alan Whitt						
1	CL5100-CS-031	5/31/96	1047		X	Confirmation Sample from AOC 25-28 Sidewall	1-4oz			
2	CL5100-CS-032	5/31/96	1051		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz			
3	CL5100-CS-033	5/31/96	1054		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz			
4	CL5100-CS-034	5/31/96	1057		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz			
5	CL5100-CS-035	5/31/96	1104		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz			
6	CL5100-CS-036	5/31/96	1108		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz			
7	CL5100-CS-037	5/31/96	1113		X	Confirmation Sample from AOC 29-32 Sidewall	1-4oz			
8	CL5100-CS-038	5/31/96	1117		X	Confirmation Sample from AOC 29-32 Base	1-4oz			
9	CL5100-CS-039	5/31/96	1122		X	Confirmation Sample from AOC 29-32 Base	1-4oz			
10	CL5100-CS-040	5/31/96	1125		X	Confirmation Sample from AOC 29-32 Base	1-4oz			
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS		
1	1-10	Crown R. Acorn		C. R. Acorn		5/31/96	1300	Samples Analyzed on-site.		
2										
3										
4								SAMPLER'S SIGNATURE Crown R. Acorn		

CHAIN-OF-CUSTODY RECORD

166580

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Camp Lejeune		PROJECT LOCATION Camp Lejeune, N.C.		ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	NUMBER OF CONTAINERS 8080	REMARKS
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599				
CLIENT'S REPRESENTATIVE Vand Marshburn		PROJECT MANAGER/SUPERVISOR Jindur / Alan Whitt				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)
1	CL5100-CS-040DP	5/31/96	1125		X	Duplicate Confirmation Sample from AOC 29-32 Sidewall Base
2	CL5100-CS-041	5/31/96	1236		X	Confirmation Sample from AOC 13-16 Base
3	CL5100-CS-042	5/31/96	1239		X	Confirmation Sample from AOC 13-16 Sidewall
4	CL5100-CS-043	5/31/96	1242		X	Confirmation Sample from AOC 13-16 Sidewall
5	CL5100-CS-044	5/31/96	1245		X	Confirmation Sample from AOC 13-16 Sidewall
6	CL5100-CS-045	5/31/96	1248		X	Confirmation Sample from AOC 13-16 Sidewall
7	CL5100-CS-046	5/31/96	1250		X	Confirmation Sample from AOC 17-20 Base
8	CL5100-CS-047	5/31/96	1253		X	Confirmation Sample from AOC 17-20 Base
9						
10						

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	<i>Coron R. Scan</i>	<i>Coron R. Scan</i>	5/31/96	1300	Samples Analyzed on-site
2						
3						
4						
						SAMPLER'S SIGNATURE <i>Coron R. Scan</i>

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME Camp Lejeune			PROJECT LOCATION Camp Lejeune, NC.			NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
PROJ. NO. 18319	PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599		2080			
CLIENT'S REPRESENTATIVE ANN Marshburn		PROJECT MANAGER/SUPERVISOR Jimmie/Alan Whitt						
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS	
1	CLJ100-CS-048	6/1/96	0832		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
2	CLJ100-CS-049	6/1/96	0835		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
3	CLJ100-CS-050	6/1/96	0839		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
4	CLJ100-CS-050DP	6/1/96	0839		X	Duplicate Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
5	CLJ100-CS-051	6/1/96	0843		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
6	CLJ100-CS-052	6/1/96	0845		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
7	CLJ100-CS-053	6/1/96	0850		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
8	CLJ100-CS-054	6/1/96	0853		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
9	CLJ100-CS-055	6/1/96	0856		X	Confirmation Sample from AOC 17-20 Sidewall	1-4oz	
10	CLJ100-CS-056	6/1/96	0907		X	Confirmation Sample from AOC 1-12 Sidewall	1-4oz	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	<i>Arcon R. Arcon</i>		<i>DR Rangel</i>		6/1/96	0900	Samples Analyzed on-site
2								
3								
4								
								SAMPLER'S SIGNATURE <i>Arcon R. Arcon</i>



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Services Corp.

CHAIN-OF-CUSTODY RECORD

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Rev. 08/89

166582

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526											
PROJECT NAME <i>Camp Lejeune</i>			PROJECT LOCATION <i>Camp Lejeune, N.C.</i>							NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>				PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>							
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)					
1	CLJ100-CS-057	6/1/96	0910		X	Confirmation Sample from AOC 1-12 sidewall				1-4oz	
2	CLJ100-CS-058	6/1/96	0913		X	Confirmation Sample from AOC 1-12 sidewall				1-4oz	
3	CLJ100-CS-059	6/1/96	0917		X	Confirmation Sample from AOC 1-12 sidewall				1-4oz	
4	CLJ100-CS-060	6/1/96	0920		X	Confirmation Sample from AOC 1-12 sidewall				1-4oz	
5	CLJ100-CS-060DP	6/1/96	0920		X	Duplicate Confirmation Sample from AOC 1-12 Sidewall				1-4oz	
6	CLJ100-CS-061	6/1/96	0923		X	Confirmation Sample from AOC 1-12 Base				1-4oz	
7	CLJ100-CS-062	6/1/96	0925		X	Confirmation Sample from AOC 1-12 Base				1-4oz	
8	CLJ100-CS-063	6/1/96	0927		X	Confirmation Sample from AOC 1-12 Base				1-4oz	
9											
10											

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-8	<i>Arac R. Azan</i>	<i>Alan Whitt</i>	6/1/96	0930	<i>Samples Analyzed on-site</i>
2						
3						
4						

SAMPLER'S SIGNATURE *Arac R. Azan*



CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526																
PROJECT NAME Camp Lejeune			PROJECT LOCATION Camp Lejeune, N.C.																			
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt			PROJECT TELEPHONE NO. (910) 451-2599																	
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt																		
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS				
								/ / / / / / / / / / / /														
1	CLT100-CS-064	6/4/96	0729		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X														
2	CLT100-CS-065	6/4/96	0624		X	Confirmation Sample from AOC 37-42 Base	1-4oz	X														
3	CLT100-CS-066	6/4/96	0628		X	Confirmation Sample from AOC 37-42 Sidewall	1-4oz	X														
4	CLT100-CS-067	6/4/96	0633		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X														
5	CLT100-CS-068	6/4/96	0637		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X														
6	CLT100-CS-069	6/4/96	0643		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X														
7	CLT100-CS-070	6/4/96	0651		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X														
8	CLT100-CS-070DP	6/4/96	0651		X	Duplicate Confirmation Sample from 33-38 Sidewall	1-4oz	X														
9	CLT100-CS-071	6/4/96	0655		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X														
10	CLT100-CS-072	6/4/96	0701		X	Confirmation Sample from AOC 33-38 Sidewall	1-4oz	X														
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS														
1	1-10	Crown R. Dean		Crown R. Dean		6/4/96	0951	Samples Analyzed on-site														
2																						
3																						
4																						
								SAMPLER'S SIGNATURE <i>Crown R. Dean</i>														



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Services Corp.

CHAIN-OF-CUSTODY RECORD

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Field Technical Services

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166586

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>				
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim D. AG Jim Durr/Alan Whitt</i>				
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
							<i>8080</i>	
1	<i>CL5100-CS-073</i>	<i>6/4/96</i>	<i>0707</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 33-38 Sidewall</i>		
2	<i>CL5100-CS-074</i>	<i>6/4/96</i>	<i>0712</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 29-32 Base</i>		
3	<i>CL5100-CS-075</i>	<i>6/4/96</i>	<i>0733</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 1-12 Base</i>		
4	<i>CL5100-CS-076</i>	<i>6/4/96</i>	<i>0738</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 1-12 Base</i>		
5	<i>CL5100-CS-077</i>	<i>6/4/96</i>	<i>0742</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 1-12 Base</i>		
6	<i>CL5100-CS-078</i>	<i>6/4/96</i>	<i>0746</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 1-12 Base</i>		
7	<i>CL5100-CS-079</i>	<i>6/4/96</i>	<i>0749</i>		<input checked="" type="checkbox"/>	<i>Confirmation Sample from AOC 1-12 Base</i>		
8		<i>6/4/96</i>			<input checked="" type="checkbox"/>		<i>AG</i>	
9								
10								
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
<i>1</i>	<i>1-78 AG</i>	<i>Corcoran R. Acorn</i>		<i>Carl P. Pongel</i>		<i>6/4/96</i>	<i>0951</i>	<i>Samples Analyzed on-site</i>
2								
3								
4								SAMPLER'S SIGNATURE <i>Corcoran R. Acorn</i>

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Camp Lejeune			PROJECT LOCATION Camp Lejeune, N.C.			NUMBER OF CONTAINERS 2080	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)		
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE VANN MARSHBURN			PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt						
ITEM NO.		SAMPLE NUMBER		DATE				TIME	
				COMP		GRAB			
		SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)						REMARKS	
1	CL5100-CS-080	4/5/96	0813		X	Confirmation Sample from AOC 1-12 Base		1-4oz	
2	CL5100-CS-080DP	4/5/96	0813		X	Duplicate Confirmation Sample from AOC 1-12 Base		1-4oz	
3	CL5100-CS-081	6/5/96	0817		X	Confirmation Sample from AOC 1-12 Base		1-4oz	
4	CL5100-CS-082	6/5/96	0820		X	Confirmation Sample from AOC 1-12 Base		1-4oz	
5	CL5100-CS-083	6/5/96	0826		X	Confirmation Sample from AOC 1-12 Sidewall		1-4oz	
6	CL5100-CS-084	6/5/96	0832		X	Confirmation Sample from AOC 1-12 Sidewall		1-4oz	
7	CL5100-CS-085	6/5/96	0840		X	Confirmation Sample from AOC 1-12 Sidewall		1-4oz	
8	CL5100-CS-086	6/5/96	0843		X	Confirmation Sample from AOC 1-12 Sidewall		1-4oz	
9	CL5100-CS-087	6/5/96	0855		X	Confirmation Sample from AOC 1-12 Sidewall		1-4oz	
10	CL5100-CS-088	6/5/96	0858		X	Confirmation Sample from AOC 1-12 Sidewall		1-4oz	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	Alan R. Acorn		Alan R. Acorn		6/5/96	09:45	Samples Analyzed on-site	
2									
3									
4								SAMPLER'S SIGNATURE <i>Alan R. Acorn</i>	



CHAIN-OF-CUSTODY RECORD

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Field Technical Services
Rev. 08/89

166590

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS														
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.																		
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR																			
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)														
1	CL5100-CS-089	6/5/96	1634		X	Confirmation Sample from AOC 1-12 Sidewall	1-4oz													
2	CL5100-CS-090	6/5/96	1639		X	Confirmation Sample from AOC 1-12 Sidewall	1-4oz													
3	CL5100-CS-090D1	6/5/96	1639		X	Duplicate Confirmation Sample from AOC 1-12 Sidewall	1-4oz													
4	CL5100-CS-091	6/5/96	1316		X	Confirmation Sample from AOC 1-12 Base	1-4oz													
5	CL5100-CS-092	6/5/96	1319		X	Confirmation Sample from AOC 1-12 Base	1-4oz													
6	CL5100-CS-093	6/5/96	1323		X	Confirmation Sample from AOC 1-12 Base	1-4oz													
7	CL5100-CS-094	6/5/96	1326		X	Confirmation Sample from AOC 1-12 Base	1-4oz													
8	CL5100-CS-095	6/5/96	1330		X	Confirmation Sample from AOC 1-12 Base	1-4oz													
9							1-4oz													
10							1-4oz													

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	34-88 3-8-96	Corcoran R. Acaw	[Signature]	6/5/96	14:12	Samples Analyzed on-site
2	1-3	Corcoran R. Acaw	[Signature]	6/1/96	17:12	
3						
4						SAMPLER'S SIGNATURE Corcoran R. Acaw



CHAIN-OF-CUSTODY RECORD

166597

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VAN Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dow / Alan Whitt</i>					
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CLJ100-CS-096	6/6/96	0837		X	Confirmation Sample from AOC 1-12 Base	1-4oz	X	
2	CLJ100-CS-097	6/6/96	1043		X	Confirmation Sample from AOC 33-38 sidewall	1-4oz	X	
3	CLJ100-CS-098	6/6/96	1046		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X	
4	CLJ100-CS-099	6/6/96	1051		X	Confirmation Sample from AOC 33-38 sidewall	1-4oz	X	
5	CLJ100-CS-100	6/6/96	1529		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X	
6	CLJ100-CS-10009	6/6/96	1529		X	Confirmation Sample from AOC 33-38 Base	1-4oz	X	
7									
8									
9									
10									

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-4	<i>Arnon R. Acem</i>	<i>Carl D. Dangel</i>	6/6/96	11:15	<i>Samples Analyzed on-site</i>
2	5+6	<i>Arnon R. Acem</i>	<i>Carl D. Dangel</i>	6/6/96	15:33	
3						
4						SAMPLER'S SIGNATURE <i>Arnon R. Acem</i>

CHAIN-OF-CUSTODY RECORD

166571

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, N.C.				
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599				
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt				
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-001	5/24/96	1440		X	Confirmation Sample from AOC 1-12 Base	1-8oz	NEESA Level C
2	CL5100-CS-002	5/24/96	1445		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
3	CL5100-CS-003	5/24/96	1451		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
4	CL5100-CS-004	5/24/96	1503		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
5	CL5100-CS-005	5/24/96	1507		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
6	CL5100-CS-006	5/24/96	1512		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
7	CL5100-CS-007	5/24/96	1531		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
8	CL5100-CS-008	5/24/96	1536		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
9	CL5100-CS-009	5/24/96	1538		X	Confirmation Sample from AOC 1-12 Base	1-8oz	
10	CL5100-CS-010	5/24/96	1545		X	Confirmation Sample from AOC 1-12 Base	1-8oz	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Cocoon R. Acam	FED-EX 6921491286	5/24/96	1700	Samples sent to CKY Inc. 48 hour T.A.T. Please Fax Results To (910) 451-1809. Thanks Hold Samples until confirmed with US.
2						
3						
4						

SAMPLER'S SIGNATURE
Cocoon R. Acam

CHAIN-OF-CUSTODY RECORD

166572

O. H. MATERIALS CORP. • P. O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME <i>Camp Lejeune</i>		PROJECT LOCATION <i>Camp Lejeune, NC.</i>	
PROJ NO <i>18319</i>	PROJECT CONTACT <i>Alan Whitt</i>	PROJECT TELEPHONE NO. <i>(910) 451-2599</i>	
CLIENT'S REPRESENTATIVE <i>VANN Marshburn</i>		PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>	

NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)									
	<i>TCL Pesticides (80%)</i>									
	REMARKS									

ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)										REMARKS					
1	CLS100-CS-010DP	5/29/96	1545		X	Duplicate Confirmation Sample from AOC 1-12 Base	1-8oz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	NEESA Level C
2	CLS100-CS-011	5/29/96	1519		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	CLS100-CS-012	5/29/96	1552		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	CLS100-CS-013	5/29/96	1557		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
5	CLS100-CS-014	5/29/96	1600		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6	CLS100-RB-529	5/29/96	1603		X	Rinsate Blank	1-1L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7	CLS100-FB-529	5/29/96	1607		X	Field Blank	1-1L	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
8																							
9																							
10																							

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-7	<i>Coren R. Swan</i>	<i>FED-EX 6921491286</i>	5/29/96	1700	Samples Sent To CKY Inc. 48 hour T.A.T. Please Fax Results To (910) 451-1809. Thanks Hold Samples until confirmed with us
2						
3						
4						SAMPLER'S SIGNATURE <i>Coren R. Swan</i>



CHAIN-OF-CUSTODY RECORD

166573

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS	
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.					
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR					
ITEM NO.	SAMPLE NUMBER	DATE	TIME				COMP
Comp Lejeune		Comp Lejeune, NC.		1-802	TCL Pesticides (2020)	Neesa Level C	
18319		(910) 451-2599					
Alan Whitt		Jim Dunn / Alan Whitt					
VANN Marshburn		TCL Pesticides (2020)					
1	CL5100-CS-015	5/30/96	1328		X		Confirmation Sample from AOC 33-38 Base
2	CL5100-CS-016	5/30/96	1333		X		Confirmation Sample from AOC 33-38 Base
3	CL5100-CS-017	5/30/96	1335		X		Confirmation Sample from AOC 33-38 Base
4	CL5100-CS-018	5/30/96	1341		X		Confirmation Sample from AOC 33-38 Sidewall
5	CL5100-CS-019	5/30/96	1346		X		Confirmation Sample from AOC 33-38 Side wall
6	CL5100-CS-020	5/30/96	1353		X		Confirmation Sample from AOC 33-38 Sidewall
7	CL5100-CS-020pp	5/30/96	1353		X	Duplicate Confirmation Sample from AOC 33-38 Sidewall	
8	CL5100-CS-021	5/30/96	1358		X	Confirmation Sample from AOC 33-38 Side wall	
9	CL5100-CS-022	5/30/96	1403		X	Confirmation Sample from AOC 33-38 Sidewall	
10	CL5100-CS-023	5/30/96	1408		X	Confirmation Sample from AOC 33-38 Sidewall	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Arnon R. Acan	FED-EX 6921491290	5/30/96	1700	Samples sent to CKY INC 48 hour T.A.T. Please Fax Results To (910) 451-1809. Thanks. Hold Samples until we contact you.
2						
3						
4						

SAMPLER'S SIGNATURE
Arnon R. Acan

CHAIN-OF-CUSTODY RECORD

166574

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS														
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.				<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">TCL Pesticides (8020)</div>														
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR																			
ITEM NO	SAMPLE NUMBER	DATE	TIME													COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	1	2
1	CLS100-CS-024	5/30/96	1412		X	Confirmation Sample from AOC 39-42 Base	1-8oz	X												NEESA Level C
2	CLS100-CS-025	5/30/96	1414		X	Confirmation Sample from AOC 39-42 sidewall	1-8oz	X												
3	CLS100-CS-026	5/30/96	1417		X	Confirmation Sample from AOC 25-28 Base	1-8oz	X												
4	CLS100-CS-027	5/30/96	1420		X	Confirmation Sample from AOC 25-28 Sidewall	1-8oz	X												
5	CLS100-CS-028	5/30/96	1423		X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz	X												
6	CLS100-CS-029	5/30/96	1426		X	Confirmation Sample from AOC 29-32 side wall	1-8oz	X												
7	CLS100-CS-030	5/30/96	1430		X	Confirmation Sample from AOC 29-32 Base	1-8oz	X												
8	CLS100-CS-030DP	5/30/96	1430		X	Duplicate Confirmation Sample from AOC 29-32 Base	1-8oz	X												✓
9	CLS100-AB-530	5/30/96	1437		X	Field Blank	1-1L	X												Do NOT RUN!
10	CLS100-RB-530	5/30/96	1441		X	Rinsate Blank	1-1L	X												Do NOT RUN!

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Aaron R. Azar	FED-EX 6921491290	5/30/96	1700	Samples sent to CKY Inc. 48 hour T.A.T. Please Fax results to (910) 451-1809. THANKS.
2						Hold Samples until we contact you.
3						
4						SAMPLER'S SIGNATURE Aaron R. Azar



CHAIN-OF-CUSTODY RECORD

166577

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS			
PROJ. NO.	PROJECT CONTACT	PROJECT TELEPHONE NO.							
CLIENT'S REPRESENTATIVE	PROJECT MANAGER/SUPERVISOR								
1	CL5100-CS-031	5/31/96	1047	X	X	Confirmation Sample from AOC 25-28 Sidewall	1-8oz	TCL Pesticides (8020)	NEESA Level C
2	CL5100-CS-032	5/31/96	1051	X	X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz		
3	CL5100-CS-033	5/31/96	1054	X	X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz		
4	CL5100-CS-034	5/31/96	1057	X	X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz		
5	CL5100-CS-035	5/31/96	1104	X	X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz		
6	CL5100-CS-036	5/31/96	1108	X	X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz		
7	CL5100-CS-037	5/31/96	1113	X	X	Confirmation Sample from AOC 29-32 Sidewall	1-8oz		
8	CL5100-CS-038	5/31/96	1117	X	X	Confirmation Sample from AOC 29-32 Base	1-8oz		
9	CL5100-CS-039	5/31/96	1122	X	X	Confirmation Sample from AOC 29-32 Base	1-8oz		
10	CL5100-CS-040	5/31/96	1125	X	X	Confirmation Sample from AOC 29-32 Base	1-8oz		

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	Carol R. Acorn	FED EX 6921492301	5/31/96		Samples sent to CKY INC. 48 hr T.A.T. Please Fax Results to (910) 451-1807. Thanks
2						
3						Hold Samples until we contact you!
4						SAMPLER'S SIGNATURE Carol R. Acorn

CHAIN-OF-CUSTODY RECORD

166578

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME Corp Lejeune		PROJECT LOCATION Camp Lejeune, NC.		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS) <i>TCL Pesticides (9020)</i>
PROJ. NO. 19319	PROJECT CONTACT Alan Whitt	PROJECT TELEPHONE NO. (910) 451-2599			
CLIENT'S REPRESENTATIVE VAN Marshburn		PROJECT MANAGER/SUPERVISOR Jim Dow / Alan Whitt			

ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	REMARKS
1	CLS100-CS-040DP	5/31/96	1225		X	Duplicate Confirmation Sample from AOC 29-32A Sidewall Base	1-807	NEESA Level C
2	CLS100-CS-041	5/31/96	1236		X	Confirmation Sample from AOC 13-16 Base	1-807	
3	CLS100-CS-042	5/31/96	1239		X	Confirmation Sample from AOC 13-16 Sidewall	1-807	
4	CLS100-CS-043	5/31/96	1242		X	Confirmation Sample from AOC 13-16 Sidewall	1-807	
5	CLS100-CS-044	5/31/96	1245		X	Confirmation Sample from AOC 13-16 Sidewall	1-807	
6	CLS100-CS-045	5/31/96	1248		X	Confirmation Sample from AOC 13-16 Sidewall	1-807	
7	CLS100-CS-046	5/31/96	1250		X	Confirmation Sample from AOC 17-20 Base	1-807	
8	CLS100-CS-047	5/31/96	1253		X	Confirmation Sample from AOC 17-20 Base	1-807	
9	CLS100-RB-531	5/31/96	1301		X	Residue Blank	1-1L	
10	CLS100-FB-531	5/31/96	1306		X	Field Blank	1-1L	

TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	1-10	<i>Alan R. Dow</i>	<i>FED EX 6421491301</i>	5/31/96		Samples sent to CKY Inc. 48 hr TAT. Please Fax Results To (910) 451-1809. Thanks Hold Samples until we contact you. SAMPLER'S SIGNATURE <i>Alan R. Dow</i>
2						
3						
4						



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Services Corp.

CHAIN-OF-CUSTODY RECORD

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Form 0310
Field Technical Services
Rev 08 89

166583

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-425-526		
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, N.C.				
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (710) 451-2599				
CLIENT'S REPRESENTATIVE VANN Marshburn				PROJECT MANAGER/SUPERVISOR Jim Durr / Alan Whitt				
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-048	6/1/96	0832		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	NEESA Level C
2	CL5100-CS-049	6/1/96	0835		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
3	CL5100-CS-050	6/1/96	0839		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
4	CL5100-CS-050DP	6/1/96	0839		X	Duplicate Confirmation Sample from AOC 17-20 sidewall	1-8oz	
5	CL5100-CS-051	6/1/96	0843		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
6	CL5100-CS-052	6/1/96	0845		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
7	CL5100-CS-053	6/1/96	0850		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
8	CL5100-CS-054	6/1/96	0853		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
9	CL5100-CS-055	6/1/96	0856		X	Confirmation Sample from AOC 17-20 sidewall	1-8oz	
10	CL5100-CS-056	6/1/96	0907		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz	
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	Crown R. Acan		FEDEX 6921491312		6/3/96		Samples sent to CKY Inc. 48 hour TAT. Please fax results to (910) 451-1809. Thanks
2								Hold samples until we contact you. SAMPLER'S SIGNATURE Crown R. Acan
3								
4								



CHAIN-OF-CUSTODY RECORD

166584

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-3526		
PROJECT NAME <i>Camp Lejeune</i>				PROJECT LOCATION <i>Camp Lejeune, NC.</i>				
PROJ NO <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910)451-2599</i>				
CLIENT'S REPRESENTATIVE <i>VANW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>				
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CS100-CS-057	6/1/96	0910		X	Confirmation Sample from AOC 1-12 Sidewall	<i>Pesticides (AOC)</i>	<i>NESSA Level C</i>
2	CS100-CS-058	6/1/96	0913		X	Confirmation Sample from AOC 1-12 Sidewall		
3	CS100-CS-059	6/1/96	0917		X	Confirmation Sample from AOC 1-12 Sidewall		
4	CS100-CS-060	6/1/96	0920		X	Confirmation Sample from AOC 1-12 Sidewall		
5	CS100-CS-060P	6/1/96	0920		X	Duplicate Confirmation Sample from AOC 1-12 Sidewall		
6	CS100-CS-061	6/1/96	0923		X	Confirmation Sample from AOC 1-12 Base		
7	CS100-CS-062	6/1/96	0925		X	Confirmation Sample from AOC 01-12 Base		
8	CS100-CS-063	6/1/96	0927		X	Confirmation Sample from AOC 1-12 Base		
9	CS100-FB-601	6/1/96	0932		X	Field Blank		
10	CS100-FB-601	6/1/96	0937		X	Rinsate Blank		
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-10	<i>Alan R. Alan</i>		FED EX 6921491312		6/3/96		Samples sent to CKY Inc. 48 hour T.A.T. Please Fax results to (910) 451-1809. Thanks
2								Do not run until we contact you.
3								
4								<i>Alan R. Alan</i>

CHAIN-OF-CUSTODY RECORD

166587

O.H. MATERIALS CORP. • P.O. BOX 551 • FINDLAY, OH 45839-0551 • 419-423-3526

PROJECT NAME		PROJECT LOCATION		NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS																							
PROJ. NO	PROJECT CONTACT	PROJECT TELEPHONE NO.				<div style="border: 1px solid black; padding: 5px; transform: rotate(-45deg); display: inline-block;">TCL Pesticides (8026)</div>																							
CLIENT'S REPRESENTATIVE		PROJECT MANAGER/SUPERVISOR																											
ITEM NO	SAMPLE NUMBER	DATE	TIME													COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	1	2	3	4	5	6	7	8	9	10	
Camp Lejeune		Camp Lejeune, NC		1-8oz	X	NEESA Level "C"																							
18319	Alan Whitt	(910) 451-2599																											
VANN Marshburn		Jim Dunn / Alan Whitt																											
1	CL5100-CS-064	6/4/96	0729														X	Confirmation Sample from AOC 1-12 Base	X										
2	CL5100-CS-065	6/4/96	0624														X	Confirmation Sample from AOC 39-42 Base	X										
3	CL5100-CS-066	6/4/96	0628														X	Confirmation Sample from AOC 39-42 sidewall	X										
4	CL5100-CS-067	6/4/96	0633														X	Confirmation Sample from AOC 33-38 Base	X										
5	CL5100-CS-068	6/4/96	0637														X	Confirmation Sample from AOC 33-38 Base	X										
6	CL5100-CS-067	6/4/96	0643														X	Confirmation Sample from AOC 33-38 Base	X										
7	CL5100-CS-070	6/4/96	0651														X	Confirmation Sample from AOC 33-38 sidewall	X										
8	CL5100-CS-070	6/4/96	0651		X	Duplicate Confirmation Sample from AOC 33-38 sidewall	X																						
9	CL5100-CS-071	6/4/96	0655		X	Confirmation Sample from AOC 33-38 sidewall	X																						
10	CL5100-CS-072	6/4/96	0701		X	Confirmation Sample from AOC 33-38 sidewall	X																						
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS																					
1	1-10	Coron R. Azan		FED-EX 6921491334		6/4/96	1700	Samples sent to CKY Inc. 48 hour T.A.T. Please Fax results to (910) 451-1809. Thanks																					
2								Hold samples until we contact you.																					
3								SAMPLER'S SIGNATURE Coron R. Azan																					
4																													

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526		
PROJECT NAME Camp Lejeune			PROJECT LOCATION Camp Lejeune, N.C.			NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599				
CLIENT'S REPRESENTATIVE VANW Marshburn			PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
TCL Pesticides (8080)								
ITEM NO.	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	REMARKS	
1	CLS100-CS-073	6/4/96	0707		X	Confirmation Sample from AOC 33-38 sidewalk	NEESA Level "C"	
2	CLS100-CS-074	6/4/96	0712		X	Confirmation Sample from AOC 29-32 Base		
3	CLS100-CS-075	6/4/96	0733		X	Confirmation Sample from AOC 1-12 Base		
4	CLS100-CS-076	6/4/96	0738		X	Confirmation Sample from AOC 1-12 Base		
5	CLS100-CS-077	6/4/96	0742		X	Confirmation Sample from AOC 1-12 Base		
6	CLS100-CS-078	6/4/96	0746		X	Confirmation Sample from AOC 1-12 Base		
7	CLS100-CS-079	6/4/96	0749		X	Confirmation Sample from AOC 1-12 Base		
8	CLS100-FB-604	6/4/96	0754		X	Field Blank		
9	CLS100-RB-604	6/4/96	0759		X	Rinse Blank		
10								
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS
1	1-9	Aaron R. Acam		FED-EX 6921491334		6/4/96	1700	Samples sent to CKY Inc. 48 hour. TAT. Please Fax results to (910) 451-1809. Thanks Hold samples until we contact you.
2								
3								
4								
							SAMPLER'S SIGNATURE	
							<i>Aaron R. Acam</i>	

CHAIN-OF-CUSTODY RECORD

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME <i>Comp Lejeune</i>				PROJECT LOCATION <i>Comp Lejeune, NC.</i>					
PROJ. NO. <i>18319</i>		PROJECT CONTACT <i>Alan Whitt</i>		PROJECT TELEPHONE NO. <i>(910) 451-2599</i>					
CLIENT'S REPRESENTATIVE <i>VanW Marshburn</i>				PROJECT MANAGER/SUPERVISOR <i>Jim Dunn / Alan Whitt</i>					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-080	6/5/96	0813		X	Confirmation Sample from AOC 1-12 Base	1-8oz		NEESA Level "C"
2	CL5100CS-08089	6/5/96	0813		X	Duplicate Confirmation Sample from AOC 1-12 Base	1-8oz		
3	CL5100-CS-081	6/5/96	0817		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
4	CL5100-CS-082	6/5/96	0820		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
5	CL5100-CS-083	6/5/96	0826		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz		
6	CL5100-CS-084	6/5/96	0832		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz		
7	CL5100-CS-085	6/5/96	0840		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz		
8	CL5100-CS-086	6/5/96	0843		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz		
9	CL5100-CS-087	6/5/96	0855		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz		
10	CL5110-CS-088	6/5/96	0858		X	Confirmation Sample from AOC 1-12 sidewall	1-8oz		✓
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	<i>Carol R. Azam</i>		FED-EX 6921491323		6/5/96	1700	Samples sent to CKY INC. 48 hour T.A.T. Please Fax Results To (910) 451-1809.	
2								Hold Samples until we contact you.	
3								SAMPLER'S SIGNATURE <i>Carol R. Azam</i>	
4									



CHAIN-OF-CUSTODY RECORD

166592

O.H. MATERIALS CORP.		P.O. BOX 551		FINDLAY, OH 45839-0551		419-423-3526			
PROJECT NAME Camp Lejeune				PROJECT LOCATION Camp Lejeune, NC.					
PROJ. NO. 18319		PROJECT CONTACT Alan Whitt		PROJECT TELEPHONE NO. (910) 451-2599					
CLIENT'S REPRESENTATIVE Van Marshburn				PROJECT MANAGER/SUPERVISOR Jim Dunn / Alan Whitt					
ITEM NO	SAMPLE NUMBER	DATE	TIME	COMP	GRAB	SAMPLE DESCRIPTION (INCLUDE MATRIX AND POINT OF SAMPLE)	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	REMARKS
1	CL5100-CS-089	6/5/96	1634		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz	TCL Pesticides (4080)	Needs Level 'C'
2	CL5100-CS-090	6/5/96	1637		X	Confirmation Sample from AOC 1-12 Sidewall	1-8oz		
3	CL5100-CS-090DP	6/5/96	1639		X	Duplicate Confirmation Sample from AOC 1-12 Sidewall	1-8oz		
4	CL5100-CS-091	6/5/96	1316		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
5	CL5100-CS-092	6/5/96	1319		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
6	CL5100-CS-093	6/5/96	1323		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
7	CL5100-CS-094	6/5/96	1326		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
8	CL5100-CS-095	6/5/96	1330		X	Confirmation Sample from AOC 1-12 Base	1-8oz		
9	CL5100-FB-6	6/5/96	0904		X	Field Blank	1-1L		Do NOT Run!
10	CL5100-RB-6	6/5/96	0909		X	Rinse Blank	1-1L		Do NOT Run!
TRANSFER NUMBER	ITEM NUMBER	TRANSFERS RELINQUISHED BY		TRANSFERS ACCEPTED BY		DATE	TIME	REMARKS	
1	1-10	Aron R. Aron		FED EX 6921491323		6/5/96	1700	Samples sent to CKY Inc. 48 hour T.A.T. Please Fax Results To (910) 451-809.	
2								Hold Samples until we contact you.	
3									
4									
								SAMPLER'S SIGNATURE <i>Aron R. Aron</i>	