5/14/98-03685

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

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



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

Attn: Ms. Katherine Landman Code 18232

Re: Contract N62470-89-D-4814 Navy CLEAN, District III Contract Task Order (CTO) 0369 Investigation Derived Waste (IDW) Characterization and Recommendations Site 10 - Original Base Landfill MCB, Camp Lejeune, North Carolina

Dear Ms. Landman:

Baker Environmental, Inc. (Baker) has completed the field investigation for Site 10, Original Base Landfill, MCB, Camp Lejeune, North Carolina. The field work was conducted between March 16 and 25, 1998 and consisted of soil, groundwater, surface water and sediment sampling. Temporary groundwater monitoring wells were constructed at the site. Samples were collected from the wells to determine if contamination resides in the groundwater beneath the site. Purge water collected during groundwater sampling (approximately 30 gallons) was contained in a 55-gallon drum and temporarily stored on-site. Samples collected during the field investigation (including one IDW sample) were submitted to an off-site laboratory and analyzed for Target Compound List (TCL) organics and Target Analyte List (TAL) inorganics. IDW sample results were received on May 7, 1998 and are discussed in the following paragraphs.

Table 1 presents a summary of contaminants detected in the IDW sample, their concentrations, the Draft North Carolina Risk Analysis Framework, Method I, Category G-1 Target Concentrations, and the Maximum Concentration of Contaminants for the Toxicity Characteristic (40 CFR part 261) for the detected contaminants. Two volatile organic compounds (VOCs) and 19 inorganic compounds were detected in the sample. The VOCs were methylene chloride and acetone. The detected concentration of methylene chloride exceeded the Maximum *<* Concentration of Contaminants for the Toxicity Characteristic but was qualified with a "B" designation denoting that the contaminant was also detected within a method blank. This typically signifies that the contaminant was not site-related and is probably due to laboratory practices. The detection of acetone is suspected not to be site-related, also. However, the origin of this contaminant is suspected to be the disposal of decontamination solution into the IDW drum. Acetone levels did not exceed the Draft North Carolina Risk Analysis Framework, Method I, Category G-1 Target Concentrations.

The 19 detected inorganic compounds included aluminum, arsenic, lead, antimony, barium, beryllium, calcium, chromium, cobalt, copper, iron, magnesium, manganese, mercury, nickel, potassium, sodium, vanadium, and zinc. Of these compounds only four exceeded the Draft North Carolina Risk Analysis Framework, Method I, Category G-1 Target Concentrations. The four compounds were lead, chromium, iron, and manganese. The detected concentrations of lead and chromium were well below the Maximum Concentration of Contaminants for the Toxicity Characteristic which determines whether a compound is at hazardous concentrations.



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Ms. Katherine Landman May 14, 1998 Page 2

Concentrations of Contaminants for the Toxicity Characteristic do not exist for iron and manganese. However, these compounds are commonly detected in groundwaters beneath MCB, Camp Lejeune at concentrations exceeding applicable groundwater standards.

Baker has reviewed the data (Attachment A) and has determined that the IDW is not hazardous. Site-related organic compounds did not exceed hazardous levels. Only four inorganic elements (lead, chromium, iron and manganese) exceeded applicable groundwater standards. Lead and chromium were not detected at concentrations that exceeded hazardous levels. Iron and manganese exceeded applicable groundwater standards but are within background ranges for MCB, Camp Lejeune. Given these results, we recommend that the IDW be disposed onsite and the drum be scrapped. Arrangements will be made to discard the IDW during the week of May 18, 1998 provided concurrence is received by May 19, 1998. Baker will contact LANTDIV, MCB, Camp Lejeune and OHM Corporation on May 19, 1998 to secure concurrence and arrange IDW disposal.

Baker appreciates the opportunity to serve LANTDIV on this project. Should you have any questions regarding this letter, please contact me at (412) 269-2098 or Mr. Matthew Bartman (Activity Coordinator) at (412) 269-2053.

Sincerely,

BAKER ENVIRONMENTAL, INC.

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James S. Culp, P.G. Project Manager

JSC/lq Enclosures

cc: Mr. Neal Paul, MCB, Camp Lejeune (w/attachments) Ms. Lee Anne Rapp, P.E., LANTDIV, Code 18312 (w/o attachments) Ms. Beth Collier, LANTDIV, Code 02115 (w/o attachments)

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TABLE 1

SUMMARY OF ANALYTICAL RESULTS FOR INVESTIGATION DERIVED WASTE (IDW) SITE 10 - ORIGINAL BASE LANDFILL MCB, CAMP LEJEUNE, NORTH CAROLINA SITE INVESTIGATION, CTO-0369

Contaminant	Concentration (µg/L)	North Carolina Risk Analysis Framework, Method I, Category G-1 Target Concentrations (µg/L)	Maximum concentration of Contaminats for for the Toxicity Characteristic (µg/L)
VOLATILES:			
Methylene Chloride	14B	5.0	
Acetone	9J	700	
SEMIVOLATILES	ND	•••	
PESTICIDES/PCBs	ND		
METALS:			
Aluminum	95,000		
• Arsenic	12.1	50	5,000
• Lead	76.4	*15	5,000
Antimony	39.4B		
• Barium	149B	2,000	100,000
Beryllium	0.78		
• Calcium	15,100		
Chromium	176	*50	5,000
• Cobalt	10.8B		
• Copper	44.2	1,000	
• Iron	30,000	*300	
Magnesium	3,520 B		
Manganese	190	*50	
• Mercury	0.20	1.1	200
• Nickel	35.0 B	100	
• Potassium	4,820 B		
Sodium	6,540		
• Vanadium	81.6		
• Zinc	88.0	2,100	

Notes:

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В	=	Compound detected in method blank
J	=	Estimated result
ND		No compounds were detected in the sample
μg/L	=	Micrograms per liter (parts per billion)
PCBs	=	Polychlorinated biphenyls

ATTACHMENT A

<u>_</u>%

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Lab Name:QUANTERRA

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SDG Number:

Matrix: (soil/water) WATER Method: OCLP OLM03.2 Lab Sample ID:H8C240173 011

Volatile Organics, GC/MS (CLP-OLM03.2)

Sample WT/Vol: 5 / mL Work Order: CG2MA103 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/28/98 Date Analyzed: 03/28/98

QC Batch: 8087122

Client Sample Id: 369-IDWAQ

CAS NO.	COMPOUND (ug/L or u	g/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	ן ד
75-09-2	Methylene chloride	14	В
67-64-1	Acetone	9.0	J
75-15-0	Carbon disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	UU
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	ש
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon tetrachloride	10	ט ו
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	υ
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	σ
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	υ

Lab Name:QUANTERRA

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SDG Number:

Matrix: (soil/water) WATER Lab Sample ID:H8C240173 011 Method: OCLP OLM03.2 Volatile Organics, GC/MS (CLP-OLM03.2)

Sample WT/Vol: 5 / mL Work Order: CG2MA103 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/28/98 Date Analyzed: 03/28/98

Client Sample Id: 369-IDWAQ

QC Batch: 8087122

_	CAS NO.	COMPOUND	(ug/L or ug/kg) ug/L	Q
	108-88-3	Toluene	10	<u> </u>
	108-90-7	Chlorobenzene	10	<u> </u>
	100-41-4	Ethylbenzene	10	<u></u>
	100-42-5	Styrene	10	<u> </u>
	1330-20-7	Xylenes (total)	10	ן

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BAKER ENVIRONMENTAL, INC. TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER Method: OCLP OLM03.2 Valatile Organics GC/

Lab Sample ID:H8C240173 011

Volatile Organics, GC/MS (CLP-OLM03.2)

Sample WT/Vol: 5 / mL Work Order: CG2MA103 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/28/98 Date Analyzed: 03/28/98

QC Batch: 8087122

Client Sample Id: 369-IDWAQ

(uc	1/L	or	ug,	<u>/kg)</u>	ug/	<u>'L</u>

· .	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
		None	l	I	

Lab Name: QUANTERRA

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SDG Number:

Matrix: (soil/water) WATER Method: OCLP OLM03.2

Base/Neutrals and Acids (CLP-OLM03.2)

Sample WT/Vol: 950 / mL Work Order: CG2MA102 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/27/98 Date Analyzed: 04/02/98

Lab Sample ID:H8C240173 011

QC Batch: 8086145

Client Sample Id: 369-IDWAQ

CAS NO.	COMPOUND (ug/L or ug		Ó
108-95-2	Phenol	10	<u> </u>
111-44-4	bis(2-Chloroethyl) ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	ע ו
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	υ
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	υ
106-44-5	4-Methylphenol	10	ט דע
621-64-7	N-Nitrosodi-n-propylamine	10	υ
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	υ
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	<u></u>
105-67-9	2,4-Dimethylphenol	10	Ū.
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	<u> </u>
120-82-1	1,2,4-Trichlorobenzene	10	U U
91-20-3	Naphthalene	10	<u> </u>
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	υ
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	σ
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	υ
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	<u> </u>

CONCENTRATION UNITS:

FORM I

Lab Name: QUANTERRA

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SDG Number:

Matrix: (soil/water) WATER Method: OCLP OLM03.2 Lab Sample ID:H8C240173 011

thod: OCLP OLM03.2 Base/Neutrals and Acids (CLP-OLM03.2)

Sample WT/Vol: 950 / mL Work Order: CG2MA102 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/27/98 Date Analyzed: 04/02/98

QC Batch: 8086145

Client Sample Id: 369-IDWAQ

CONCERTION ON TD.				
CAS NO.	COMPOUND (ug/L or ug	g/kg) ug/L	Q	
131-11-3	Dimethyl phthalate	10	U	
208-96-8	Acenaphthylene	10	<u> </u>	
606-20-2	2,6-Dinitrotoluene	10	U	
99-09-2	3-Nitroaniline	25	U	
83-32-9	Acenaphthene	10	U U	
51-28-5	2,4-Dinitrophenol	25	ט 🗌 ד	
100-02-7	4-Nitrophenol	25	U	
132-64-9	Dibenzofuran	10	ש	
121-14-2	2,4-Dinitrotoluene	10	ש	
84-66-2	Diethyl phthalate	10	υ	
7005-72-3	4-Chlorophenyl phenyl ether	10	U	
86-73-7	Fluorene	10	<u> </u>	
100-01-6	4-Nitroaniline	25	<u> </u>	
534-52-1	4,6-Dinitro-2-methylphenol	25	UU	
86-30-6	N-Nitrosodiphenylamine	10	U	
101-55-3	4-Bromophenyl phenyl ether	10	ע ד	
118-74-1	Hexachlorobenzene	10	U	
87-86-5	Pentachlorophenol	25	<u> </u>	
85-01-8	Phenanthrene	10	<u> </u>	
120-12-7	Anthracene	10	ט ו	
86-74-8	Carbazole	10	U	
84-74-2	Di-n-butyl phthalate	10	υ	
206-44-0	Fluoranthene	10	U	
129-00-0	Pyrene	10	<u> </u>	
85-68-7	Butyl benzyl phthalate	10	ט ו	
91-94-1	3,3'-Dichlorobenzidine	10	<u> </u>	
56-55-3	Benzo (a) anthracene	10	U	
218-01-9	Chrysene	10	<u> </u>	

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BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

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SDG Number:

Matrix: (soil/water) WATER Method: OCLP OLM03.2 Lab Sample ID:H8C240173 011

Base/Neutrals and Acids (CLP-OLM03.2)

Sample WT/Vol: 950 / mL Work Order: CG2MA102 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/27/98 Date Analyzed: 04/02/98

QC Batch: 8086145

Client Sample Id: 369-IDWAQ

_	CAS NO.	COMPOUND (ug/L or ug	g/kg) ug/L Q
	117-81-7	bis(2-Ethylhexyl) phthalate	10 U
	117-84-0	Di-n-octyl phthalate	10 U
	205-99-2	Benzo(b)fluoranthene	10 U
1	207-08-9	Benzo(k)fluoranthene	10 U
. 1	50-32-8	Benzo(a)pyrene	10 U
	193-39-5	Indeno(1,2,3-cd)pyrene	10 U
	53-70-3	Dibenz (a, h) anthracene	10 U
	191-24-2	Benzo(ghi)perylene	10 U

BAKER ENVIRONMENTAL, INC. TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:QUANTERRA

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SDG Number:

Lab Sample ID:H8C240173 011

Matrix: (soil/water) WATER Lab Method: OCLP OLM03.2 Base/Neutrals and Acids (CLP-OLM03.2)

> Date Received: 03/24/98 Date Extracted:03/27/98 Date Analyzed: 04/02/98

QC Batch: 8086145

Client Sample Id: 369-IDWAQ

Sample WT/Vol: 950 / mL

Work Order: CG2MA102

Dilution factor: 1

Moisture %:NA

(ug/L or ug/kg) ug/L

1	CAS NUMBER	COMPOUND NAME	RT	EST. CONC. Q
	50-45-3	Benzoic acid, 2,3-dichloro-	14.866	10
	134-62-3	Diethyltoluamide	15.599	8.3

Lab Name:QUANTERRA

SDG Number:

Lab Sample ID:H8C240173 011

Matrix: (soil/water) WATER Method: OCLP OLM03.2 Pesticides/PCB (CLP-OLM03.2)

Sample WT/Vol: 1000 / mL Work Order: CG2MA101 Dilution factor: 1 Moisture %:NA Date Received: 03/24/98 Date Extracted:03/26/98 Date Analyzed: 04/10/98

QC Batch: 8085146

Client Sample Id: 369-IDWAQ

CAS NO.	COMPOUND (uq/)	L or ug/kg) ug/L	0
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	ש ד
959-98-8	Endosulfan I	0.050	ע ד
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	ט ד
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	ט דע
1031-07-8	Endosulfan sulfate	0.10	ט ד
50-29-3	4,4'-DDT	0.10	ט ד
72-43-5	Methoxychlor	0.50	ט ד
53494-70-5	Endrin ketone	0.10	ט ד
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	ט דע
5103-74-2	gamma-Chlordane	0.050	ן ד
8001-35-2	Toxaphene	5.0	ש ד
12674-11-2	Aroclor 1016	1.0	U
11104-28-2	Aroclor 1221	2.0	U
11141-16-5	Aroclor 1232	1.0	υ
53469-21-9	Aroclor 1242	1.0	ש
12672-29-6	Aroclor 1248	1.0	ט דע
11097-69-1	Aroclor 1254	1.0	U
11096-82-5	Aroclor 1260	1.0	UU

Client Sample ID: 369-IDWAQ

TOTAL Metals

Lot-Sample #...: H8C240173-011 Date Sampled...: 03/23/98

Date Received..: 03/24/98

Matrix.....: WATER

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		REPORTING	ITS	METHOD	PREPARATION-	WORK
PARAMETER	RESULT	LIMIT UN	118	METHOD	ANALYSIS DATE	ORDER #
Prep Batch #.	: 8104211					
Aluminum	95000	200 ug,	/L	ICLP ILM03.0	04/15-04/16/98	CG2MA105
		Dilution Factor: 1	1			
		Analysis Time: 1	L8:14			
Arsenic	12.1	10.0 ug,	/ь	ICLP ILM03.0	04/15-04/18/98	CG2MA10Q
		Dilution Factor: 1				
		Analysis Time: 1	15:55			
Lead	76.4	3.0 ug	/ь	ICLP ILM03.0	04/15-04/18/98	CG2MA10R
		Dilution Factor: 1	1			
		Analysis Time: 1	15:55			
Antimony	39.4 B	60.0 ug	/L	ICLP ILM03.0	04/15-04/16/98	CG2MA106
		Dilution Factor: 1	1			
		Analysis Time: J	18:14			
Barium	149 B	200 ug	/L	ICLP ILM03.0	04/15-04/16/98	CG2MA107
		Dilution Factor: 1	1			
		Analysis Time: 1	18:14			
Selenium	ND	5.0 ug	/L	ICLP ILM03.0	04/15-04/18/98	CG2MA10T
		Dilution Factor: 1	1			
		Analysis Time: 1	15:55			
Beryllium	0.78 B	5.0 ug	/L	ICLP ILM03.0	04/15-04/16/98	CG2MA108
		Dilution Factor: 1	1			
		Analysis Time: 1	18:14			
Thallium	ND	10.0 ug	/L	ICLP ILM03.0	04/15-04/18/98	CG2MA10U
		Dilution Factor: :	1			
		Analysis Time:	15:55			
Cadmium	ND	5.0 ug	/L	ICLP ILM03.0	04/15-04/16/98	CG2MA109
		Dilution Factor: 2	1			
		Analysis Time: 2	18:14	-		
Calcium	15100	5000 ug	/L	ICLP ILM03.0	04/15-04/16/98	CG2MA10A
		Dilution Factor: :				
		Analysis Time :	18:14			
Chromium	176	10.0 ug	г / Ъ	ICLP ILM03.0	04/15-04/16/98	CG2MA10C
		Dilution Factor:				
		Analysis Time:	18:14			

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	SUMMARY OF ANALYTICAL RESULTS FOR INVESTIGATION DERIVED WASTE (IDW) SITE 10 - ORIGINAL BASE LANDFILL MCB, CAMP LEYEUNE, NORTH CAROLINA SITE INVESTIGATION, CTO-0369						
Contaminant	Concentration	Detection LIMIT					
VOLATILES · Methylene Chloride · Acetone	14-B Jug/L 9. J Jug/L	10/119/1- 10/119/1-	Checked By				
SEMIVOLATILES	ND	10125/4g/L					
PESTICIDES/PCBS	ND	0.5 to 5.0 /19/L					
METALS · Aluminum	95,000 jug/c	200 jugic	Sheet No. Drawing No Date				
· Arsenic · LEAD · Antimony	12.1 Jug/c 76.4 Jug/c 39.4 B Jug/c	10 jug/L 3 jug/L 60.0 jug/L					
· BARIUM • Beryllium • CALCIUM	149B Jug/L 0.78 Jug/L	200 lug/L 5.0 lug/L					
• Chromium • Chromium • Cobalt	15,100 leg/L 176 leg/L 10.8 B leg/L	5,000 lug/L 10 lug/L 50.0 lug/L					

Client Sample ID: 369-IDWAQ

TOTAL Metals

Lot-Sample #...: H8C240173-011

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	•	REPORTIN				PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHO		ANALYSIS DATE	·····
Cobalt	10.8 B	50.0	ug/հ	ICLP	ILM03.0	04/15-04/16/98	CG2MA10D
		Dilution Fact					
		Analysis Time	2: 18:14				
Copper	44.2	25.0	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MAL0E
		Dilution Fact					
		Analysis Time	e: 18:14				
Iron	30000	100	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10F
		Dilution Fact	cor: 1				
		Analysis Time	e: 18:14				
Magnesium	3520 B	5000	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10G
		Dilution Fact	or: 1				
		Analysis Time	e: 18:14				
Manganese	190	15.0	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10H
		Dilution Fact	tor: 1				
		Analysis Time	e: 18;14				
Nickel	35.0 B	40.0	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10J
		Dilution Fact	or: 1				
		Analysis Time	e: 18:14				
Potassium	4820 B	5000	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10K
		Dilution Fact	tor: 1				
		Analysis Time	e: 18:14				
Silver	ND	10.0	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10L
	•	Dilution Fact	tor: 1				
		Analysis Time	2: 18:14				
Sodium	6540	5000	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10M
		Dilution Fact	tor: 1				
		Analysis Time	e: 18:14				
Vanadium	81.6	50.0	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10N
		Dilution Fac	tor: 1				
		Analysis Time	e: 18:14				
Zinc	88.0	20.0	ug/L	ICLP	ILM03.0	04/15-04/16/98	CG2MA10P
		Dilution Fact	tor: 1				
		Analysis Time	e: 18:14				

(Continued on next page)

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: 369-IDWAQ

TOTAL Metals

Lot-Sample #...: H8C240173-011

Matrix..... WATER

PARAMETER	RESULT	REPORTING	G UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #. Mercury	: 8105142 0.20	0.20 Dilution Fact Analysis Time		ICLP ILM03.0	04/15-04/16/98	CG2MA10V

NOTE(S):

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B Estimated result. Result is less than RL.

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