

Field #: **004** ~~00~~-374-081203

Suffolk County Department of Health Services

Division of Environmental Quality

Public & Environmental Health Laboratory

ELAP#10528

SPACE FOR LABORATORY LABEL
DO NOT MARK IN THIS AREA.

Date Collected: 3 Dec 08

Time Collected: 1115
(00:00 - 24:00)Collected By: B Robinson
(Last Name)

Analysis Request Form

Source of
Sample
(to appear on
reports)

SAMPLE ID #240-172E / Carman's River / Yaphank

LOCATION e/s upper lake (Willow Lk) - at beach

INVESTIGATION

☐ NYSDEC Pesticide Survey Task # _____

Supply Type:

☐ Public ☐ Private ☐ Bottled ☐ Test Well* ☒ Surface ☐ Sewage/Industrial ☐ Other

Collection Point:

☐ Tank ☐ Kitchen ☐ Bathroom ☐ Outside Tap ☐ Well ☐ Other☒ Samples Thermally Preserved☐ Flamed Tap☒ Raw☒ Filtered☒ Volatile Organics☐ Chlorinated Pesticides☐ Microextractibles☐ Chlorinated Acids☐ Total Hardness☐ Calcium Hardness☐ Total Solids☐ Suspended Solids☐ Dissolved Solids☐ TOC ☐ DOC☐ Histamine ☐ EP Tox☒ Semi-Volatile Organics☒ Herbicide Metabolites☐ Aldicarb Pesticides☐ Dacthal☐ SVOC527 ☐ PAH☐ TCLP☐ Cyanide☐ Phenols☐ Oil & Grease☐ Fluoride☐ Hexavalent Chromium☐ Colilert / E. Coli☒ MPN☐ SPC☐ Enterococci☐ Vitek☐ BT☐ CPA-T ☐ CPA-F☐ Radiology

(Tritium, Gross Alpha, Gross Beta)

☐ Asbestos☐ Flash Point☒ Metals☒ Inorganics (NO₃, Cl, etc.)☒ pH, Sp. Conductance☐ Perchlorate☒ MBAS ☐ Mercury☒ Ammonia☐ TKN ☐ DKN☐ TP ☐ DP☐ TN ☐ DN☐ Total Fe ☐ Total Mn☐ Total Metals (raw)

* Test Well is for wells used for testing only, not for drinking water wells. Development wells are Private.

Additional Field Data:

FIELD MEASUREMENTS

DTW/GAGE (ft)	TASK/PROJECT #
FIELD TURBIDITY	WELL DEPTH (ft)
FIELD D.O. 10.84	PROFILE #
FIELD TEMP. (°C) 7.4°C	SCREEN LENGTH (ft)
FIELD pH	SUMP LENGTH (ft)
FIELD COND. 101	WELL DIAMETER (in)
PUMP RATE (GPM) /	PVC / STAINLESS STEEL
PERI	

COMMENTS:

GPS COORDINATES - NORTH 40.84284 WEST 072.93606

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

BACTERIOLOGICAL EXAMINATION OF WATER - Method 9221
Coliform Bacteria Enumeration

Lab Number Source of Sample	Field Number	Labworks ID	Total Coliform MPN/100mL	Fecal Coliform MPN/100mL
Samples submitted by ROBINSON on 12/3/2008				
12-08-00075	001-374-081203	PL00075	130.	20.
240-169 - Carman's River, Yaphank/Surface				
Total Coliform Comment:				
Fecal Coliform Comment:				
12-08-00076	002-374-081203	PL00076	20.	< 20
240-172SW, Carman's River, Yaphank/Surface				
Total Coliform Comment:				
Fecal Coliform Comment:				
12-08-00077	003-374-081203	PL00077	40.	< 20
240-172NW, Carman's River, Yaphank/Surface				
Total Coliform Comment:				
Fecal Coliform Comment:				
12-08-00078	004-374-081203	PL00078	170.	170.
240-172E, Carman's River, Yaphank/Surface				
Total Coliform Comment:				
Fecal Coliform Comment:				

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
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PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field#: 004-374-081203

Collection Date: 12/3/2008

Collector: ROBINSON

Source: 240-172E, Carman's River, Yaphank/Surface

Type: FW



Lab#: 12-08-00078

Submission Date 12/3/2008

Labworks ID: PL00078

HERBICIDE METABOLITE ANALYSIS - LC/MS Method developed at SCDHS PEHL

DB#	Analyte	Result	Units
C0752	G-28273 (DACT - Didealkylatrazine)	< 0.8	ug/L
C0750	G-28279 (DIA - Deisopropylatrazine)	< 0.2	ug/L
C0751	G-30033 (DEA - Desethylatrazine)	< 0.4	ug/L
C0761	Imidacloprid	< 0.2	ug/L
C0768	Imidacloprid Urea	< 0.2	ug/L
C0759	CP-108064 (Alachlor OA)	< 0.4	ug/L
C0760	CP-108065 (Alachlor ESA)	< 0.2	ug/L
C0755	CGA-37735 (Metolachlor Metabolite)	< 0.2	ug/L
C0753	CGA-51202 (Metolachlor OA)	< 0.3	ug/L
C0754	CGA-354743 (Metolachlor ESA)	< 0.3	ug/L
C0756	CGA-41638 (Metolachlor Metabolite)	< 0.3	ug/L
C0758	CGA-40172 (Metolachlor Metabolite)	< 0.3	ug/L
C0757	CGA-67125 (Metolachlor Metabolite)	< 0.3	ug/L
C0762	G-34048 (2-HydroxyAtrazine)	< 0.3	ug/L
C0763	Malaoxon	< 0.2	ug/L
C0764	Trichlorfon	< 0.3	ug/L
C0765	Siduron	< 0.3	ug/L
C0841	Dichlorvos	< 0.6	ug/L
C0766	Propamocarb hydrochloride	< 0.3	ug/L
C0767	2,6-Dichlorobenzamide	< 0.5	ug/L
C0848	Ibuprofen	< 0.2	ug/L
C0719	Gemfibrozil	< 0.4	ug/L
C0031	Metalaxyl	< 0.1	ug/L
C0052	Metolachlor	< 0.2	ug/L
C0802	Tebuthiuron	< 0.3	ug/L
C0838	Caffeine	< 0.2	ug/L
C0278	Dinoseb	trace(0.1)	ug/L
C0855	Bisphenol A	< 0.2	ug/L
C0772	Diuron	< 0.2	ug/L
C0773	Phenytoin (Dilantin)	< 0.2	ug/L
C0774	4-Hydroxyphenytoin	< 0.5	ug/L

< 0.3 ug/L

31 Component(s)

Date completed 12/7/08 *mm*

POTABLE WATER ANALYSIS

Field#: 004-374-081203

Collection Date: 12/3/2008

Collector: ROBINSON



Lab#: 12-08-00078

Submission Date 12/3/2008

Labworks ID: PL00078

Source: 240-172E, Carman's River, Yaphank/Surface

Type: FW

Metal Analyses - EPA Method 200.8

DB#	Analyte	Result	Units	Analyst
C0126	Silver	< 5	ug/L	WM
C0132	Aluminum	7	ug/L	WM
C0120	Arsenic	< 1	ug/L	WM
C0121	Barium	29	ug/L	WM
C0426	Beryllium	< 0.3	ug/L	WM
C0122	Cadmium	< 1	ug/L	WM
C0128	Cobalt	< 1	ug/L	WM
C0104	Chromium	< 1	ug/L	WM
C0102	Copper	< 1	ug/L	WM
C0124	Mercury	< 0.4	ug/L	WM
C0101	Manganese	15	ug/L	WM
C0129	Molybdenum	< 1	ug/L	WM
C0131	Nickel	< 0.5	ug/L	WM
C0123	Lead	< 1	ug/L	WM
C0427	Antimony	< 0.4	ug/L	WM
C0125	Selenium	< 4	ug/L	WM
C0062	Thorium	< 4	ug/L	WM
C0416	Titanium	< 1	ug/L	WM
C0425	Thallium	< 0.3	ug/L	WM
C0429	Uranium	< 1	ug/L	WM
C0115	Vanadium	< 1	ug/L	WM
C0103	Zinc	< 50	ug/L	WM

22 Components

Date Analyzed: 12/4/2008

Metal Analyses - EPA Method 200.7

DB#	Analyte	Result	Units	Analyst
C0100	Iron	< 0.1	mg/L	WM
C0106	Sodium	10.8	mg/L	WM
C0107	Potassium	1.3	mg/L	WM
C0108	Calcium	9.0	mg/L	WM
C0109	Magnesium	3.7	mg/L	WM

Date Analyzed: 12/11/2008

Sample Comments:

Report Date: 12/15/2008

Wm 12/15/08
Reviewed: _____

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
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PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field#: 004-374-081203

Collector: ROBINSON

Collection Date: 12/3/2008

Source: 240-172E, Carman's River, Yaphank/Surface

Type: FW



Lab#: 12-08-00078

Submission Date 12/3/2008

Labworks ID: PL00078

Standard Inorganic Analyses

DB#	Analyte	Result	Units	Method	Analyst	Analysis Date	Reviewed By	Analysis Comments
C0073	pH*	7.4	N/A	SM 4500B	EDP	12/3/2008	<i>h</i>	
C0080	Chloride	15.	mg/L	EPA 300.0	LSR	12/4/2008	<i>h</i>	
C0087	Sulfate	12.	mg/L	EPA 300.0	LSR	12/4/2008	<i>h</i>	
C0076	Ammonia (not distilled)	.03	mg/L	EPA 350.1	BS	12/3/2008	<i>h</i>	
C0077	Nitrite	< .1	mg/L	EPA 300.0	LSR	12/4/2008	<i>h</i>	
C0079	Nitrate	1.7	mg/L	EPA 300.0	LSR	12/4/2008	<i>h</i>	
C0096	Bromide	< 0.5	mg/L	EPA 300.0	LSR	12/4/2008	<i>h</i>	

Optional Inorganic Analyses

DB#	Analyte	Result	Units	Method	Analyst	Analysis Date	Reviewed By	Analysis Comments
C0081	MBAS (Low Sensitivity)	.2	mg/L	SM 5540C	BS	12/3/2008	<i>h</i>	

Specific Conductivity / Anion Ratio: Analyses Incomplete

Completed: 12/23/08 *h*

* pH analysis not completed within regulatory holding time.

Report Date: 12/12/2008

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
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PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528

Field Number: **004-374-081203**

Collection Date: 12/3/2008

Collection Time: 11:15:00 AM

Collected By: ROBINSON



Lab Number: **12-08-00078**

Submission Date: 12/3/2008

Sample ID: PL00078

Sample Type: FW

Source: 240-172E, Carman's River, Yaphank/Surface

SEMI-VOLATILE ORGANIC ANALYSIS - EPA Method 525.2

Sample acidified in the lab to pH <2.

DB#	Analyte	Result (ppb)	Internal Std #	DB#	Analyte	Result (ppb)	Internal Std #	DB#	Analyte	Result (ppb)	Internal Std #
C0437	1,2,4-Trichlorobenzene	< 0.2	1	C0814	Cyfluthrin	< 0.2	1	C0833	Methyl parathion	< 0.2	2
C0857	1-Methylnaphthalene	< 0.2	1	C0839	Cypermethrin	< 0.5	3	C0052	Metolachlor	< 0.2	2
C0858	2-Methylnaphthalene	< 0.2	1	C0536	Dacthal	< 0.2	2	C0054	Metribuzin	< 0.2	2
C0702	Acenaphthene	< 0.2	1	C0840	Deltamethrin	< 0.5	3	C0842	Naled (Dibrom)	< 0.2	1
C0716	Acenaphthylene	< 0.2	1	C0046	Diazinon	< 0.2	2	C0701	Naphthalene	< 0.2	1
C0808	Acetochlor	< 0.2	2	C0713	Dibenzo(a,h)anthracene	< 0.2	3	C0824	Napropamide	< 0.2	3
C0226	Alachlor	< 0.2	2	C0401	Dibutyl phthalate	< 1.	2	C0812	Pendimethalin	< 0.2	2
C0837	Allethrin	< 0.2	2	C0827	Dichlobenil	< 0.2	1	C0801	Pentachlorobenzene	< 0.2	1
C0705	Anthracene	< 0.5	2	C0841	Dichlorvos	< 0.5	1	C0810	Pentachloronitrobenzene	< 0.2	2
C0055	Atrazine	< 0.2	2	C0216	Dieldrin	< 0.2	2	C0819	Permethrin	< 0.2	3
C0834	Azoxystrobin	< 0.2	3	C0845	Diethyl phthalate	< 1.	1	C0704	Phenanthrene	< 0.2	2
C0815	Benfluralin	< 0.5	1	C0717	Diethyltoluamide (DEET)	< 0.2	1	C0831	Piperonyl butoxide	< 0.5	3
C0708	Benzo(a)anthracene	< 0.5	3	C0844	Dimethyl phthalate	< 0.2	1	C0035	Prometon	< 0.5	2
C0710	Benzo(b)fluoranthene	< 0.2	3	C0278	Dinoseb	< 0.5	2	C0843	Prometryne	< 0.2	2
C0714	Benzo(ghi)perylene	< 0.2	3	C0400	Diocetyl phthalate	< 0.2	3	C0040	Propachlor	< 0.2	1
C0711	Benzo(k)fluoranthene	< 0.2	3	C0803	Disulfoton	< 0.5	2	C0836	Propiconazole (TILT)	< 0.2	3
C0712	Benzo-a-pyrene	< 0.2	3	C0823	Disulfoton sulfone	< 0.2	3	C0707	Pyrene	< 0.5	3
C0718	Benzophenone	< 0.2	1	C0232	Endosulfan sulfate	< 0.2	2	C0829	Resmethrin	< 0.2	3
C0846	Benzyl butyl phthalate	< 0.2	3	C0820	EPTC	< 0.2	1	C0859	Ronstar	< 0.2	3
C0049	bis(2-ethylhexyl) adipate	< 0.5	3	C0804	Ethofumesate	< 0.2	2	C0056	Simazine	< 0.2	2
C0048	bis(2-ethylhexyl) phthalate	< 2.	3	C0832	Ethyl parathion	< 0.2	2	C0830	Sumithrin	< 0.2	3
C0855	Bisphenol A	< 0.5	3	C0706	Fluoranthene	< 0.2	2	C0802	Tebuthiuron	< 0.5	1
C0826	Bloc	< 0.2	3	C0703	Fluorene	< 0.2	1	C0822	Terbacil	< 0.5	2
C0041	Bromacil	< 0.5	2	C0057	Hexachlorobenzene	< 0.2	1	C0821	Terbufos	< 0.5	2
C0050	Butachlor	< 0.2	3	C0607	Hexachlorobutadiene	< 0.2	1	C0817	Triadimefon	< 0.5	2
C0851	Butylated Hydroxyanisole	< 0.5	1	C0047	Hexachlorocyclopentadiene	< 1.	1	C0850	Triclosan	< 0.2	2
C0852	Butylated Hydroxytoluene	< 0.5	1	C0471	Hexachloroethane	< 1.	1	C0809	Trifluralin	< 0.5	1
C0853	Carbamazepine	< 0.5	3	C0856	Hexazinone	< 1.	3	C0811	Vinclozolin	< 0.5	2
C0854	Carbazole	< 0.2	2	C0715	Indeno(1,2,3-cd)pyrene	< 0.2	3	102 Components			
C0849	Carisoprodol	< 0.5	2	C0818	Iodofenphos	< 0.2	3				
C0215	Chlordane	< 0.2	3	C0813	Iprodione	< 0.5	3				
C0720	Chlorofenvinphos	< 0.2	2	C0807	Isofenphos	< 0.5	2				
C0816	Chlorothalonil	< 1.	2	C0825	Kelthane	< 0.5	3				
C0847	Chloroxylenol	< 0.2	1	C0805	Malathion	< 0.5	2				
C0806	Chlorpyrifos	< 0.2	2	C0031	Metalaxyl	< 0.2	2				
C0709	Chrysene	< 0.2	3	C0828	Methoprene	< 0.2	2				
C0032	Cyanazine	< 0.2	2	C0212	Methoxychlor	< 0.2	3				

Analyst(s): CK, HW Date(s) of analysis: 12-15-08 Reviewed By: _____

All internal standards and surrogate recoveries within acceptable range (70-130%) unless specified

Internal Standards:

1 Acenaphthene - d10 76.1
2 Phenanthrene - d10 83.1
3 Chrysene - d12 74.1

Surrogate Standards:

1,3-dimethyl-2-nitrobenzene 99.1
Triphenylphosphate 118.1
Perylene - d12 102.1

Aliquot pH: 5.2 C
Extractor#: 7

Comments:

Report Date: 12/19/2008

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES
DIVISION OF ENVIRONMENTAL QUALITY
PUBLIC AND ENVIRONMENTAL HEALTH LABORATORY - ELAP #10528



Field Number: 004-374-081203
Collection Date: 12/3/2008
Collection Time: 11:15:00 AM
Collected By: ROBINSON

Lab Number: 12-08-00078
Submission Date: 12/3/2008
Sample ID: PL00078
Sample Type: FW

Source: 240-172E, Carman's River, Yaphank/Surface

VOLATILE ORGANIC ANALYSIS - EPA Method 524.2

DB#	Analyte	Result	DB#	Analyte	Result	DB#	Analyte	Result
C0615	Chlorodifluoromethane	< 0.5 ppb	C0307	1,1-Dichloroethene	< 0.5 ppb	C0436	Dichlorodifluoromethane	< 0.5 ppb
C0302	Bromodichloromethane	< 0.5 ppb	C0419	1,3,5-Trimethylbenzene	< 0.5 ppb	C0612	Chloroethane	< 0.5 ppb
C0406	2,3-Dichloropropene	< 0.5 ppb	C0418	1,2,4-Trimethylbenzene	< 0.5 ppb	C0611	Bromomethane	< 0.5 ppb
C0407	cis-1,3-Dichloropropene	< 0.5 ppb	C0610	Chloromethane	< 0.5 ppb	C0408	trans-1,3-Dichloropropene	< 0.5 ppb
C0412	1,2-Dichlorobenzene (o)	< 0.5 ppb	C0439	Trichlorofluoromethane	< 0.5 ppb	C0322	1,1,2-Trichloroethane	< 0.5 ppb
C0462	1,3-Dichlorobenzene (m)	< 0.5 ppb	C0306	Vinyl chloride	< 0.5 ppb	C0409	1,1,1,2-Tetrachloroethane	< 0.5 ppb
C0463	1,4-Dichlorobenzene (p)	< 0.5 ppb	C0432	p-Diethylbenzene	< 0.5 ppb	C0305	Methylene chloride	< 0.5 ppb
C0295	1,1,2,2-Tetrachloroethane	< 0.5 ppb	C0435	1,2,4,5-Tetramethylbenzene	< 0.5 ppb	C0323	1,1-Dichloroethane	< 0.5 ppb
C0433	1,2,3-Trichloropropane	< 0.5 ppb	C0437	1,2,4-Trichlorobenzene	< 0.5 ppb	C0309	trans-1,2-Dichloroethene	< 0.5 ppb
C0450	2,2-Dichloropropane	< 0.5 ppb	C0438	1,2,3-Trichlorobenzene	< 0.5 ppb	C0300	Chloroform	< 0.5 ppb
C0451	1,3-Dichloropropane	< 0.5 ppb	C0600	Ethynylbenzene (Styrene)	< 0.5 ppb	C0324	1,2-Dichloroethane	< 0.5 ppb
C0290	Bromochloromethane	< 0.5 ppb	C0601	Isopropylbenzene	< 0.5 ppb	C0321	1,1,1-Trichloroethane	< 0.5 ppb
C0650	tert-Butyl-Ethyl-Ether	< 0.5 ppb	C0602	n-Propylbenzene	< 0.5 ppb	C0304	Carbon tetrachloride	< 0.5 ppb
C0651	tert-Amyl-Methyl-Ether	< 0.5 ppb	C0603	tert-Butylbenzene	< 0.5 ppb	C0294	1-Bromo-2-chloroethane	< 0.5 ppb
C0250	Benzene	< 0.5 ppb	C0604	sec-Butylbenzene	< 0.5 ppb	C0405	1,2-Dichloropropane	< 0.5 ppb
C0251	Toluene	< 0.5 ppb	C0605	p-Isopropyltoluene	< 0.5 ppb	C0310	Trichloroethene	< 0.5 ppb
C0258	Chlorobenzene	< 0.5 ppb	C0606	n-Butylbenzene	< 0.5 ppb	C0701	Naphthalene	< 0.5 ppb
C0303	Chlorodibromomethane	< 0.5 ppb	C0259	Ethylbenzene	< 0.5 ppb	C0607	Hexachlorobutadiene	< 0.5 ppb
C0420	2-Bromo-1-chloropropane	< 0.5 ppb	C0254	o-Xylene	< 0.5 ppb	C0614	Methyl-tertiary-butyl-ether	< 0.5 ppb
C0301	Bromoform	< 0.5 ppb	C0260	m,p-Xylene	< 0.5 ppb	C0311	Tetrachloroethene	< 0.5 ppb
C0255	Total Xylene	< 0.5 ppb	C0059	1,4-Dichlorobutane	< 0.5 ppb	C0308	cis-1,2-Dichloroethene	< 0.5 ppb
C0620	Methyl sulfide	< 0.5 ppb	C0320	Freon 113	< 0.5 ppb	C0266	2-Chlorotoluene	< 0.5 ppb
C0058	Dimethyldisulfide	< 0.5 ppb	C0292	Dibromomethane	< 0.5 ppb	C0257	Bromobenzene	< 0.5 ppb
C0613	1,1-Dichloropropene	< 0.5 ppb	C0268	4-Chlorotoluene	< 0.5 ppb	C0619	2-Butanone (MEK)	< 20. ppb
C0465	Methyl isothiocyanate	< 2. ppb	C0453	Diethyl ether	< 0.5 ppb	C0621	Tetrahydrofuran	< 20. ppb
C0455	Carbon disulfide	< 0.5 ppb	C0456	Acrylonitrile	< 0.5 ppb	C0466	Allyl chloride	< 0.5 ppb
C0458	Methylmethacrylate	< 0.5 ppb	C0469	Ethylmethacrylate	< 0.5 ppb	C0467	Methacrylonitrile	< 0.5 ppb
C0460	d-Limonene	< 0.5 ppb	C0421	n-Propane	< 2. ppb	C0622	Propanal	< 15. ppb
C0721	Isobutane	< 2. ppb	C0722	n-Butane	< 2. ppb		86 Components	

Comments:

Analyst(s): IL

Report Date: 12/12/2008