



Client Name: TRC
Contact: Brendan Lazar
Address: 57 East Willow Street
Millburn, NJ 07041

Page: Page 1 of 19
Lab Proj #: P1402006
Report Date: 03/27/14
Client Proj Name: Roche SWGW MNA
Client Proj #: Roche SWGW MNA

Laboratory Results

Total pages in data package: 4

<u>Lab Sample #</u>	<u>Client Sample ID</u>
P1402006-01	MW-74-36.75
P1402006-02	MW-212C-76.75
P1402006-03	MW-24-26.75
P1402006-04	MW-63-37.25
P1402006-05	MW-233C-61.75
P1402006-06	MW-60-17.0(A)

Microseeps test results meet all the requirements of the NELAC standards or provide reasons and/or justification if they do not.

Approved By: Robbin Robl **Date:** 3/27/14

Project Manager: Robbin Robl

The analytical results reported here are reliable and usable to the precision expressed in this report. As required by some regulating authorities, a full discussion of the uncertainty in our analytical results can be obtained at our web site or through customer service. Unless otherwise specified, all results are reported on a wet weight basis.

*As a valued client we would appreciate your comments on our service.
Please call customer service at (412)826-5245 or email customerservice@microseeps.com.*

Case Narrative:

Client: TRC
 57 East Willow Street
 Millburn NJ 07041
 Project: Roche SWGW MNA
 Project # Roche SWGW MNA
 Report to: Brendan Lazar
 (no email address given)

Microseeps, A Division of Pace Analytical
 220 William Pitt Way
 Pittsburgh, PA 15238
 412-826-5245
www.microseeps.com

Report of Isotope Analysis

First Date Collected: 2/19/2014
 Date Reported: 3/27/2014

Water samples for $\delta^{13}\text{C}$ (‰, PDB) isotopic ratios

Lab Sample Number	Client's Sample ID	$\delta^{13}\text{C}$	$\delta^{13}\text{C}$	$\delta^{13}\text{C}$	$\delta^{13}\text{C}$
		VC	cDCE	TCE	PCE
P1402006-01	MW-74-36.75	-28.96	-22.07	-22.86	-24.21
P1402006-02	MW-212C-75.75	ND	-20.26	-25.49	-24.85
P1402006-03	MW-24-26.75	-26.57	-18.84	-25.43	-22.41
P1402006-04	MW-63-37.25	-6.89	-14.67	-24.16	-25.07
P1402006-05	MW-233C-61.75	-20.87	-18.52	-24.79	-24.47
P1402006-06	MW-60-17.0(A)	-35.56	-29.34	-27.98	-24.54

ND: Ratio Not Determined
 N/A: Sample Not Analyzed

VC: Vinyl Chloride
 cDCE: cis-Dichloroethene
 TCE: Trichloroethene
 PCE: Tetrachloroethene

Method: Compound Specific Isotope Analysis for ^{13}C and ^2H by GC-IRMS, for ^{37}Cl by GC-qMS

Quality Control STDs	$\delta^{13}\text{C}$	$\delta^{13}\text{C}$	$\delta^{13}\text{C}$	$\delta^{13}\text{C}$
	VC	cDCE	TCE	PCE
QC-1	-29.39	-12.80	-27.35	-26.66
QC-2	-29.21	-11.91	-26.62	-26.30
Mean	-29.30	-12.36	-26.98	-26.48
Analytical Precision (1σ)	0.13	0.63	0.51	0.26



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

P1402006

Page: _____ of _____

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	TRC Environmental	Report To:	blazar@trcsolutions.com	Company Name:	
Address:	57 East Willow Street Millburn, NJ 07041	Copy To:	pfurtick@trcsolutions.com	Address:	
Phone:	973-564-6006	Purchase Order No.:	Bill HLR Directly	Place Quote Reference:	
Requested Due Date/TAT:	Standard	Project Name:	Hoffman La Roche / Site-wide GW MNA	Place Project Manager:	
		Project Number:	198233	Face Profile #:	

REGULATORY AGENCY	
<input type="checkbox"/> NPDES	<input checked="" type="checkbox"/> GROUND WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA
<input type="checkbox"/> DRINKING WATER	<input type="checkbox"/> OTHER
Site Location	NJ
STATE:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOILSOLID SL OIL OI WIPE WI AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES	# OF CONTAINERS	UNPRESERVED	ANALYSIS TESTS	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS	
					COMPOSITE START	COMPOSITE END/GRAB											
1	DW-5C-306.75		WT G	G	2/19/14	9:10		2		LHC PG CSIA-PCE,TCE,DCE,VC							
2	DW-8C-303.75		WT G	G	2/19/14	9:20		2									
3	MW-74-36.75		WT G	G	2/19/14	9:25		11	9								
4	MW-212C-76.75		WT G	G	2/19/14	9:50		15	9								
5	MW-194-15.0		WT G	G	2/19/14	10:20		2									
6	MW-24-26.75		WT G	G	2/19/14	11:25		11	9								
7	MW-63-37.25		WT G	G	2/19/14	11:55		11	9								
8	MW-8C-71.75		WT G	G	2/19/14	12:00		2									
9	MW-233C-61.75		WT G	G	2/19/14	14:55		11	9								
10	MW-60-17.0(A)		WT G	G	2/19/14	15:00		11	9								
11	DW-8A-117.75		WT G	G	2/19/14	16:00		2									
12																	

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
LHC = Light hydrocarbon analysis		Christina Georgiadis / TRC		2/19/14		17:37		Fed Ex tracking #		2/18/14					
PG = Permanent Gases								7979 7218 2145		2/20/14		10:30		Ice (Y/N)	
CSIA = Compound Specific Isotope Analysis								Handwritten Signature						Cooler (Y/N)	
* = MS/MSD for BAK														Received on	
On Ice Under Custody Seal # 792														Temp in °C	
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER: Christina Georgiadis		DATE Signed (MM/DD/YY): 2/19/14										Samples Intact (Y/N)	
SIGNATURE of SAMPLER: Christina Georgiadis															

Cooler Receipt Form

Client Name: FRC Project: Hoffman-La Roche Lab Work Order: P1402006

198233

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 797972182145

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 1°C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
Microseeps containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments: _____

Cooler contents examined/received by: LY Date: 2-20-14

Project Manager Review: PR Date: 2/21/14