

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 09:25	Site:	Notes:
Sample #: 312094-002	Client Sample #: B-1-CW20	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Chloroform	ND	1	0.044	0.5	ug/L	10/19/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	nicollez	
Tetrachloroethene	1.0	1	0.15	0.5	ug/L	10/19/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	107	70-145	
4-Bromofluorobenzene (SUR)	110	70-145	
Dibromodifluoromethane (SUR)	100	70-145	
Toluene-d8 (SUR)	103	70-145	

Method: SM 2320-B	Prep Method: Method	QCBatchID: QC1130512
Bicarbonate (HCO3)	262	1 1 5 mg/L 10/15/12 hanhkhong
Carbonate (CO3)	ND	1 0.7 5 mg/L 10/15/12 hanhkhong
Hydroxide (OH)	ND	1 0.3 5 mg/L 10/15/12 hanhkhong
Total Alkalinity (as CaCO3)	215	1 1.8 5 mg/L 10/15/12 hanhkhong
Method: SM 2510-B	Prep Method: Method	QCBatchID:
Specific Conductance	853	1 0.86 1 umhos/cm 10/17/12 ame
Method: SM 2540-C	Prep Method: Method	QCBatchID: QC1130545
Total Dissolved Solids	428	1 5.7 10 mg/L 10/15/12 rvenal
Method: SM 4500-H+B	Prep Method: Method	QCBatchID:
pH	7.51	1 pH Units 10/13/12 dung

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor



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ALAB : 000006

CONFIDENTIAL

LMC-PET-00001269

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 09:25	Site:	Notes:
Sample #: 312094-002	Client Sample #: B-1-CW20	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: SM 4500-Si-C	Prep Method: Method					QCBatchID: QC1130568		
Silica	27.6	5	0.5	5	mg/L	10/16/12	cathy	
Method: SM 5310B	Prep Method: Method					QCBatchID: QC1130670		
Total Organic Carbon (TOC)	0.5	1	0.1	0.5	mg/L	10/16/12	quang	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor



ASSOCIATED LABORATORIES

Analytical Results Report

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ALAB : 00007

CONFIDENTIAL

LMC-PET-00001270

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 12:15	Site:	Notes:
Sample #: 312094-003	Client Sample #: C-1-CW06	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6							QCBatchID: QC1130697
Hexavalent Chromium	0.6 J	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 NELAC	Prep Method: EPA 3010A/Filtered							QCBatchID: QC1130591
Chromium	0.004 J	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 NELAC	Prep Method: EPA 5030B							QCBatchID: QC1130739
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/19/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethene	0.7	1	0.13	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/19/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/19/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/19/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/19/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/19/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/19/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/19/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/19/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/19/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/19/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/19/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/19/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/19/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/19/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/19/12	nicollez	
Chloroform	0.5	1	0.044	0.5	ug/L	10/19/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

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ALAB : 000008

CONFIDENTIAL

LMC-PET-00001271

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 12:15	Site:	Notes:
Sample #: 312094-003	Client Sample #: C-1-CW06	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	nicollez	
Tetrachloroethene	12	1	0.15	0.5	ug/L	10/19/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Trichloroethene	190	10	0.78	5	ug/L	10/19/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	113	70-145	
4-Bromofluorobenzene (SUR)	109	70-145	
Dibromodifluoromethane (SUR)	103	70-145	
Toluene-d8 (SUR)	102	70-145	

Method: EPA 8260M	Prep Method: EPA 5030B	QCBatchID: QC1130838
1,2,3-Trichloropropane	ND	1 0.005 0.005 ug/L 10/23/12 akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	94	50-150	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

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ALAB : 000009

CONFIDENTIAL

LMC-PET-00001272

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 15:20	Site:	Notes:
Sample #: 312094-004	Client Sample #: B-5-CW02	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6							QCBatchID: QC1130697
Hexavalent Chromium	ND	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 NELAC	Prep Method: EPA 3010A/Filtered							QCBatchID: QC1130591
Chromium	ND	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 NELAC	Prep Method: EPA 5030B							QCBatchID: QC1130739
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/19/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/19/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/19/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/19/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/19/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/19/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/19/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/19/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/19/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/19/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/19/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/19/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/19/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/19/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/19/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/19/12	nicollez	
Chloroform	ND	1	0.044	0.5	ug/L	10/19/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor



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ALAB : 00010

CONFIDENTIAL

LMC-PET-00001273

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 15:20	Site:	Notes:
Sample #: 312094-004	Client Sample #: B-5-CW02	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	nicollez	
Tetrachloroethene	3.8	1	0.15	0.5	ug/L	10/19/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Trichloroethene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	116	70-145	
4-Bromofluorobenzene (SUR)	109	70-145	
Dibromodifluoromethane (SUR)	104	70-145	
Toluene-d8 (SUR)	101	70-145	

Method: EPA 8260M		Prep Method: EPA 5030B				QCBatchID: QC1130838		
1,2,3-Trichloropropane		ND	1	0.005	0.005	ug/L	10/23/12	akk
<u>Analyte</u>		<u>% Recovery</u>		<u>Limits</u>		<u>Notes</u>		
Toluene-d8 (SUR)		105		50-150				

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor



ASSOCIATED LABORATORIES

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ALAB : 00011

CONFIDENTIAL

LMC-PET-00001274

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 13:25	Site:	Notes:
Sample #: 312094-005	Client Sample #: M-W-6	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6							QCBatchID: QC1130697
Hexavalent Chromium	2.23	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 300.0	Prep Method: Method							QCBatchID: QC1130592
Nitrate, as Nitrogen	16.3	5	0.3	0.5	mg/L	10/13/12	wei	
Nitrite, as Nitrogen	ND	1	0.018	0.1	mg/L	10/13/12	wei	
Method: EPA 6010 NELAC	Prep Method: EPA 3010A/Filtered							QCBatchID: QC1130591
Chromium	0.005 J	1	0.002	0.01	mg/L	10/17/12	nina	
Thallium	ND	1	0.003	0.005	mg/L	10/17/12	nina	
Method: EPA 8260 NELAC	Prep Method: EPA 5030B							QCBatchID: QC1130739
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/19/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichlorotrifluoroethane	1.0	1	0.119	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethene	2.4	1	0.13	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/19/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/19/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/19/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/19/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/19/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/19/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/19/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/19/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/19/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/19/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/19/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/19/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/19/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/19/12	nicollez	
Carbon Tetrachloride	1.9	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/19/12	nicollez	
Chloroform	3.3	1	0.044	0.5	ug/L	10/19/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB: 00012

CONFIDENTIAL

LMC-PET-00001275

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 13:25	Site:	Notes:
Sample #: 312094-005	Client Sample #: M-W-6	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	nicollez	
Tetrachloroethene	72	1	0.15	0.5	ug/L	10/19/12	nicollez	
Toluene	13	1	0.078	0.5	ug/L	10/19/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Trichloroethene	56	1	0.078	0.5	ug/L	10/19/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	111	70-145	
4-Bromofluorobenzene (SUR)	104	70-145	
Dibromodifluoromethane (SUR)	100	70-145	
Toluene-d8 (SUR)	105	70-145	

Method: EPA 8260M	Prep Method: EPA 5030B	QCBatchID: QC1130838
1,2,3-Trichloropropane	0.175	5 0.025 0.025 ug/L 10/23/12 akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	123	50-150	

Method: EPA 8270M	Prep Method: EPA 3535	QCBatchID: QC1130590
1,4-Dioxane	1.1	1 0.12 1 ug/L 10/16/12 qnguyen

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

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ALAB : 00013

CONFIDENTIAL

LMC-PET-00001276

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 09:36	Site:	Notes:
Sample #: 312094-006	Client Sample #: C-1-CW08	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6							QCBatchID: QC1130697
Hexavalent Chromium	ND	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 NELAC	Prep Method: EPA 3010A/Filtered							QCBatchID: QC1130591
Chromium	ND	1	0.002	0.01	mg/L	10/17/12	nina	
Method: EPA 8260 NELAC	Prep Method: EPA 5030B							QCBatchID: QC1130739
1,1,1,2-Tetrachloroethane	ND	1	0.122	0.5	ug/L	10/19/12	nicollez	
1,1,1-Trichloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2,2-Tetrachloroethane	ND	1	0.063	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichloroethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
1,1,2-Trichlorotrifluoroethane	ND	1	0.119	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethane	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloroethene	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
1,1-Dichloropropene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichlorobenzene	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,2,3-Trichloropropane	ND	1	0.073	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trichlorobenzene	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
1,2,4-Trimethylbenzene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromo-3-chloropropane	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
1,2-Dibromoethane	ND	1	0.043	0.5	ug/L	10/19/12	nicollez	
1,2-Dichlorobenzene	ND	1	0.051	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloroethane	ND	1	0.066	0.5	ug/L	10/19/12	nicollez	
1,2-Dichloropropane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
1,3,5-Trimethylbenzene	ND	1	0.097	0.5	ug/L	10/19/12	nicollez	
1,3-Dichlorobenzene	ND	1	0.052	0.5	ug/L	10/19/12	nicollez	
1,3-Dichloropropane	ND	1	0.68	0.5	ug/L	10/19/12	nicollez	
1,4-Dichlorobenzene	ND	1	0.12	0.5	ug/L	10/19/12	nicollez	
2,2-Dichloropropane	ND	1	0.11	0.5	ug/L	10/19/12	nicollez	
2-Butanone (MEK)	ND	1	0.3	5	ug/L	10/19/12	nicollez	
2-Chloroethyl Vinyl Ether	ND	1	0.23	0.5	ug/L	10/19/12	nicollez	
2-Chlorotoluene	ND	1	0.079	0.5	ug/L	10/19/12	nicollez	
4-Chlorotoluene	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
4-Isopropyltoluene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
4-Methyl-2-pentanone (MIBK)	ND	1	0.16	5	ug/L	10/19/12	nicollez	
Acetone	ND	1	0.2	10	ug/L	10/19/12	nicollez	
Allyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Benzene	ND	1	0.071	0.5	ug/L	10/19/12	nicollez	
Bromobenzene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Bromochloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromodichloromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Bromoform	ND	1	0.053	0.5	ug/L	10/19/12	nicollez	
Bromomethane	ND	1	0.13	1	ug/L	10/19/12	nicollez	
Carbon Tetrachloride	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chlorobenzene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Chlorodibromomethane	ND	1	0.045	0.5	ug/L	10/19/12	nicollez	
Chloroethane	ND	1	0.4	0.5	ug/L	10/19/12	nicollez	
Chloroform	ND	1	0.044	0.5	ug/L	10/19/12	nicollez	
Chloromethane	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,2-Dichloroethene	ND	1	0.055	0.5	ug/L	10/19/12	nicollez	
cis-1,3-dichloropropene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
cis-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor



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ALAB: 00014

CONFIDENTIAL

LMC-PET-00001277

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 09:36	Site:	Notes:
Sample #: 312094-006	Client Sample #: C-1-CW08	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Dibromomethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Dichlorodifluoromethane	ND	1	0.062	0.5	ug/L	10/19/12	nicollez	
Di-isopropyl ether (DIPE)	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Ethylbenzene	ND	1	0.091	0.5	ug/L	10/19/12	nicollez	
Ethyl-tertbutylether (ETBE)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	
Hexachlorobutadiene	ND	1	0.073	1	ug/L	10/19/12	nicollez	
Isopropylbenzene	ND	1	0.089	0.5	ug/L	10/19/12	nicollez	
m and p-Xylene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
Methylene chloride	ND	1	0.15	0.5	ug/L	10/19/12	nicollez	
Methyl-t-butyl Ether (MTBE)	ND	1	0.068	0.5	ug/L	10/19/12	nicollez	
Naphthalene	ND	1	0.061	0.5	ug/L	10/19/12	nicollez	
N-butylbenzene	ND	1	0.094	0.5	ug/L	10/19/12	nicollez	
N-propylbenzene	ND	1	0.09	0.5	ug/L	10/19/12	nicollez	
o-Xylene	ND	1	0.075	0.5	ug/L	10/19/12	nicollez	
Sec-butylbenzene	ND	1	0.077	0.5	ug/L	10/19/12	nicollez	
Styrene	ND	1	0.088	0.5	ug/L	10/19/12	nicollez	
t-Butyl alcohol (TBA)	ND	1	5	5	ug/L	10/19/12	nicollez	
Tert-amylmethylether (TAME)	ND	1	0.13	0.5	ug/L	10/19/12	nicollez	
Tert-butylbenzene	ND	1	0.092	0.5	ug/L	10/19/12	nicollez	
Tetrachloroethene	7.9	1	0.15	0.5	ug/L	10/19/12	nicollez	
Toluene	ND	1	0.078	0.5	ug/L	10/19/12	nicollez	
trans-1,2-dichloroethene	ND	1	0.17	0.5	ug/L	10/19/12	nicollez	
trans-1,3-dichloropropene	ND	1	0.056	0.5	ug/L	10/19/12	nicollez	
trans-1,4-dichloro-2-butene	ND	1	0.075	5	ug/L	10/19/12	nicollez	
Trichloroethene	0.6	1	0.078	0.5	ug/L	10/19/12	nicollez	
Trichlorofluoromethane	ND	1	0.06	0.5	ug/L	10/19/12	nicollez	
Vinyl Chloride	ND	1	0.08	0.5	ug/L	10/19/12	nicollez	
Xylenes (Total)	ND	1	0.25	0.5	ug/L	10/19/12	nicollez	

Analyte	% Recovery	Limits	Notes
1,2-Dichloroethane-d4 (SUR)	114	70-145	
4-Bromofluorobenzene (SUR)	110	70-145	
Dibromodifluoromethane (SUR)	104	70-145	
Toluene-d8 (SUR)	105	70-145	

Method: EPA 8260M	Prep Method: EPA 5030B	QCBatchID: QC1130844
1,2,3-Trichloropropane	ND	1 0.005 0.005 ug/L 10/24/12 akk

Analyte	% Recovery	Limits	Notes
Toluene-d8 (SUR)	96	50-150	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00015

CONFIDENTIAL

LMC-PET-00001278

Matrix: Water	Client: ARCADIS	Collector: Client
Sampled: 10/13/2012 08:20	Site:	Notes:
Sample #: 312094-007	Client Sample #: 3871G	

Analyte	Result	DF	MDL	RDL	Units	Analyzed	By	Notes
Method: EPA 218.6	Prep Method: EPA 218.6							QCBatchID: QC1130697
Hexavalent Chromium	1.36	1	0.1	1	ug/L	10/19/12	rybechay	
Method: EPA 6010 NELAC	Prep Method: EPA 3010A/Filtered							QCBatchID: QC1130591
Chromium	0.006 J	1	0.002	0.01	mg/L	10/17/12	nina	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00016

CONFIDENTIAL

LMC-PET-00001279

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130512	Analyst: hanhkhong	Method: SM 2320-B
Matrix: Water	Analyzed: 10/15/2012	Instrument: CHEM (group)

Duplicate Summary						
Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1130512DUP1						Source: 311995-010
Bicarbonate (HCO ₃)	336	332	mg/L	1.2	20	
Carbonate (CO ₃)	ND	ND	mg/L	0.0	20	
Hydroxide (OH)	ND	ND	mg/L	0.0	20	
Total Alkalinity (as CaCO ₃)	275	273	mg/L	0.7	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB: 00017

CONFIDENTIAL

LMC-PET-00001280

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130545	Analyst: rvenal	Method: SM 2540-C
Matrix: Water	Analyzed: 10/15/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130545MB1					
Total Dissolved Solids	ND	mg/L	5.7	10	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	
QC1130545LCS1										
Total Dissolved Solids	293		275		mg/L	94			90-110	

Duplicate Summary

Analyte	Sample Amount	Duplicate Amount	Units	RPD	Limits RPD	Notes
QC1130545DUP1						
Total Dissolved Solids	8340	8320	mg/L	0.2	5	Source: 312149-001

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00018

CONFIDENTIAL

LMC-PET-00001281

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130568	Analyst: cathy	Method: SM 4500-Si-C
Matrix: Water	Analyzed: 10/16/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130568MB1					
Silica	ND	mg/L	0.1	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130568LCS1											
Silica	2		2.05		mg/L	103			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1130568MS1, QC1130568MSD1												
Silica	33.8	10	10	44.8	43.8	mg/L	110	100	2.3	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report

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ALAB : 00019

CONFIDENTIAL

LMC-PET-00001282

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130590	Analyst: qnguyen	Method: EPA 8270M
Matrix: Water	Analyzed: 10/15/2012	Instrument: SVOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130590MB1					
1,4-Dioxane	ND	ug/L	0.12	1	
N-nitrosodiethylamine (NDEA)	ND	ug/L	0.68	2	
N-Nitrosodimethylamine (NDMA)	ND	ug/L	0.29	2	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130590LCS1, QC1130590LCSD1											
1,4-Dioxane	20	20	13	14	ug/L	65	70	7	65-135	35	
N-nitrosodiethylamine (NDEA)	20	20	14	15	ug/L	70	75	7	65-135	35	
N-Nitrosodimethylamine (NDMA)	20	20	14	15	ug/L	70	75	7	65-135	35	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00020

CONFIDENTIAL

LMC-PET-00001283

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130591	Analyst: metha	Method: EPA 6010B
Matrix: Water	Analyzed: 10/17/2012	Instrument: AA/CP (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130591MB1					
Chromium	ND	mg/L	0.002	0.01	
Thallium	ND	mg/L	0.003	0.005	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1130591LCS1											
Chromium	2		2.24		mg/L	112			80-120		
Thallium	2		2.20		mg/L	110			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1130591MS1, QC1130591MSD1												
Chromium	0.015	1	1	1.09	1.05	mg/L	108	104	3.7	75-125	20	
Thallium	ND	1	1	0.991	0.976	mg/L	99	98	1.5	75-125	20	

Source: 311877-003

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00021

CONFIDENTIAL

LMC-PET-00001284

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130592	Analyst: wei	Method: EPA 300.0
Matrix: Water	Analyzed: 10/13/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130592MB1					
Chloride	ND	mg/L	0.1	1	
Fluoride	ND	mg/L	0.04	0.2	
Nitrate, as Nitrogen	ND	mg/L	0.06	0.1	
Nitrite, as Nitrogen	ND	mg/L	0.018	0.1	
Sulfate	ND	mg/L	0.12	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1130592LCS1											
Chloride	40		40.7		mg/L	102			90-110		
Fluoride	8		7.89		mg/L	99			90-110		
Nitrate, as Nitrogen	4.5		4.60		mg/L	102			90-110		
Nitrite, as Nitrogen	3.1		3.10		mg/L	100			90-110		
Sulfate	40		39.2		mg/L	98			90-110		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes	
	Amount	MS	MSD	MS	MSD		MS	MSD		%Rec	RPD		
QC1130592MS1											Source: 312094-002		
Chloride	67.3	200		250		mg/L	91			75-125			
Fluoride	0.44	40		37.0		mg/L	91			75-125			
Nitrate, as Nitrogen	6.80	22.6		29.3		mg/L	100			75-125			
Nitrite, as Nitrogen	0.05	30.5		30.1		mg/L	99			75-125			
Sulfate	100	200		277		mg/L	89			75-125			

Source: 312094-002

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

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ALAB: 00022

CONFIDENTIAL

LMC-PET-00001285

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: <u>QC1130599</u>	Analyst: nina	Method: EPA 200.7
Matrix: Water	Analyzed: 10/17/2012	Instrument: AAICP (group)

<i>Blank Summary</i>					
Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130599MB1					
Calcium	ND	mg/L	0.038	0.1	
Magnesium	0.031 J	mg/L	0.016	0.1	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00023

CONFIDENTIAL

LMC-PET-00001286

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130670	Analyst: quang	Method: SM 5310B
Matrix: Water	Analyzed: 10/16/2012	Instrument: TOC-BIO (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130670MB1					
Total Organic Carbon (TOC)	ND	mg/L	0.1	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130670LCS1											
Total Organic Carbon (TOC)	10		9.9		mg/L	99			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1130670MS1, QC1130670MSD1												
Source: 312080-013												
Total Organic Carbon (TOC)	ND	10	10	10.5	10.6	mg/L	105	106	0.9	80-120	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00024

CONFIDENTIAL

LMC-PET-00001287

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130697	Analyst: rybechay	Method: EPA 218.6
Matrix: Water	Analyzed: 10/22/2012	Instrument: CHEM (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130697MB1					
Hexavalent Chromium	ND	ug/L	0.1	1	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130697LCS1											
Hexavalent Chromium	5		4.77		ug/L	95			80-120		

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample Amount	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
		MS	MSD	MS	MSD		MS	MSD		%Rec	RPD	
QC1130697MS1, QC1130697MSD1												Source: 312080-015
Hexavalent Chromium	0.6	2	2	2.43	2.57	ug/L	92	99	5.6	75-125	20	
QC1130697MS2, QC1130697MSD2												Source: 312094-004
Hexavalent Chromium	ND	2	2	1.79	1.81	ug/L	90	91	1.1	75-125	20	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

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ALAB: 00025

CONFIDENTIAL

LMC-PET-00001288

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130739	Analyst: nicollez	Method: EPA 8260B
Matrix: Water	Analyzed: 10/19/2012	Instrument: VOA-MS (group)

Blank Summary

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130739MB1					
1,1,1,2-Tetrachloroethane	ND	ug/L	0.122	0.5	
1,1,1-Trichloroethane	ND	ug/L	0.063	0.5	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.063	0.5	
1,1,2-Trichloroethane	ND	ug/L	0.045	0.5	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	0.119	0.5	
1,1-Dichloroethane	ND	ug/L	0.078	0.5	
1,1-Dichloroethene	ND	ug/L	0.13	0.5	
1,1-Dichloropropene	ND	ug/L	0.06	0.5	
1,2,3-Trichlorobenzene	ND	ug/L	0.06	0.5	
1,2,3-Trichloropropane	ND	ug/L	0.073	0.5	
1,2,4-Trichlorobenzene	ND	ug/L	0.068	0.5	
1,2,4-Trimethylbenzene	ND	ug/L	0.078	0.5	
1,2-Dibromo-3-chloropropane	ND	ug/L	0.08	0.5	
1,2-Dibromoethane	ND	ug/L	0.043	0.5	
1,2-Dichlorobenzene	ND	ug/L	0.051	0.5	
1,2-Dichloroethane	ND	ug/L	0.066	0.5	
1,2-Dichloropropane	ND	ug/L	0.06	0.5	
1,3,5-Trimethylbenzene	ND	ug/L	0.097	0.5	
1,3-Dichlorobenzene	ND	ug/L	0.052	0.5	
1,3-Dichloropropane	ND	ug/L	0.68	0.5	
1,4-Dichlorobenzene	ND	ug/L	0.12	0.5	
2,2-Dichloropropane	ND	ug/L	0.11	0.5	
2-Butanone (MEK)	ND	ug/L	0.3	5	
2-Chloroethyl Vinyl Ether	ND	ug/L	0.23	0.5	
2-Chlorotoluene	ND	ug/L	0.079	0.5	
4-Chlorotoluene	ND	ug/L	0.08	0.5	
4-Isopropyltoluene	ND	ug/L	0.091	0.5	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	0.16	5	
Acetone	ND	ug/L	0.2	10	
Allyl Chloride	ND	ug/L	0.08	0.5	
Benzene	ND	ug/L	0.071	0.5	
Bromobenzene	ND	ug/L	0.073	1	
Bromochloromethane	ND	ug/L	0.06	0.5	
Bromodichloromethane	ND	ug/L	0.06	0.5	
Bromoform	ND	ug/L	0.053	0.5	
Bromomethane	ND	ug/L	0.13	1	
Carbon Tetrachloride	ND	ug/L	0.045	0.5	
Chlorobenzene	ND	ug/L	0.075	0.5	
Chlorodibromomethane	ND	ug/L	0.045	0.5	
Chloroethane	ND	ug/L	0.4	0.5	
Chloroform	ND	ug/L	0.044	0.5	
Chloromethane	ND	ug/L	0.055	0.5	
cis-1,2-Dichloroethene	ND	ug/L	0.055	0.5	
cis-1,3-dichloropropene	ND	ug/L	0.061	0.5	
cis-1,4-dichloro-2-butene	ND	ug/L	0.075	5	
Dibromomethane	ND	ug/L	0.06	0.5	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00026

CONFIDENTIAL

LMC-PET-00001289

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130739	Analyst: nicollez	Method: EPA 8260B
Matrix: Water	Analyzed: 10/19/2012	Instrument: VOA-MS (group)

Analyte	Blank Result	Units	MDL	RDL	Notes
QC1130739MB1					
Dichlorodifluoromethane	ND	ug/L	0.062	0.5	
Di-isopropyl ether (DIPE)	ND	ug/L	0.17	0.5	
Ethylbenzene	ND	ug/L	0.091	0.5	
Ethyl-tertbutylether (ETBE)	ND	ug/L	0.25	0.5	
Hexachlorobutadiene	ND	ug/L	0.073	1	
Isopropylbenzene	ND	ug/L	0.089	0.5	
m and p-Xylene	ND	ug/L	0.17	0.5	
Methylene chloride	ND	ug/L	0.15	0.5	
Methyl-t-butyl Ether (MTBE)	ND	ug/L	0.068	0.5	
Naphthalene	ND	ug/L	0.061	0.5	
N-butylbenzene	ND	ug/L	0.094	0.5	
N-propylbenzene	ND	ug/L	0.09	0.5	
o-Xylene	ND	ug/L	0.075	0.5	
Sec-butylbenzene	ND	ug/L	0.077	0.5	
Styrene	ND	ug/L	0.088	0.5	
t-Butyl alcohol (TBA)	ND	ug/L	5	5	
Tert-amylmethylether (TAME)	ND	ug/L	0.13	0.5	
Tert-butylbenzene	ND	ug/L	0.092	0.5	
Tetrachloroethene	ND	ug/L	0.15	0.5	
Toluene	ND	ug/L	0.078	0.5	
trans-1,2-dichloroethene	ND	ug/L	0.17	0.5	
trans-1,3-dichloropropene	ND	ug/L	0.056	0.5	
trans-1,4-dichloro-2-butene	ND	ug/L	0.075	5	
Trichloroethene	ND	ug/L	0.078	0.5	
Trichlorofluoromethane	ND	ug/L	0.06	0.5	
Vinyl Chloride	ND	ug/L	0.08	0.5	
Xylenes (Total)	ND	ug/L	0.25	0.5	

Lab Control Spike/ Lab Control Spike Duplicate Summary

Analyte	Spike Amount		Spike Result		Units	Recoveries		Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	
QC1130739LCS1										
1,1-Dichloroethene	25		24		ug/L	96			59-172	
Benzene	25		25		ug/L	100			62-137	
Chlorobenzene	25		26		ug/L	104			60-133	
Methyl-t-butyl Ether (MTBE)	25		24		ug/L	96			62-137	
Toluene	25		26		ug/L	104			59-139	
Trichloroethene	25		26		ug/L	104			66-142	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

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ALAB : 00027

CONFIDENTIAL

LMC-PET-00001290

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: <u>QC1130739</u>	Analyst: nicollez	Method: EPA 8260B
Matrix: Water	Analyzed: 10/19/2012	Instrument: VOA-MS (group)

Matrix Spike/Matrix Spike Duplicate Summary

Analyte	Sample	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	Amount	MS	MSD	MS	MSD		MS	MSD	RPD	%Rec	RPD	
QC1130739MS1, QC1130739MSD1							Source: 312094-002					
1,1-Dichloroethene	ND	25	25	26	26	ug/L	104	104	0.0	59-172	22	
Benzene	ND	25	25	25	26	ug/L	100	104	3.9	62-137	24	
Chlorobenzene	ND	25	25	26	26	ug/L	104	104	0.0	60-133	24	
Methyl-t-butyl Ether (MTBE)	ND	25	25	27	26	ug/L	108	104	3.8	62-137	21	
Toluene	ND	25	25	26	26	ug/L	104	104	0.0	59-139	21	
Trichloroethene	ND	25	25	26	25	ug/L	104	100	3.9	66-142	21	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

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ALAB : 00028

CONFIDENTIAL

LMC-PET-00001291

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: QC1130838	Analyst: akk	Method: EPA 8260M
Matrix: Water	Analyzed: 10/24/2012	Instrument:

<i>Blank Summary</i>						
Analyte	Blank Result	Units	MDL	RDL	Notes	
QC1130838MB1						
1,2,3-Trichloropropane	ND	ug/L	0.005	0.005		

<i>Lab Control Spike/ Lab Control Spike Duplicate Summary</i>											
Analyte	Spike Amount		Spike Result		Units	Recoveries		RPD	Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD		%Rec	RPD	
QC1130838LCS1, QC1130838LCSD1											
1,2,3-Trichloropropane	0.02	0.02	0.022	0.028	ug/L	110	140	24	50-150	30	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report

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ALAB : 00029

CONFIDENTIAL

LMC-PET-00001292

ASSOCIATED LABORATORIES QC SUMMARY FOR LAB REQUEST #312094

QCBatchID: <u>QC1130844</u>	Analyst: <u>akk</u>	Method: <u>EPA 8260M</u>
Matrix: <u>Water</u>	Analyzed: <u>10/25/2012</u>	Instrument: <u>VOA-MS (group)</u>

Blank Summary						
Analyte	Blank Result	Units	MDL	RDL	Notes	
QC1130844MB1						
1,2,3-Trichloropropane	ND	ug/L	0.005	0.005		

Lab Control Spike/ Lab Control Spike Duplicate Summary											
Analyte	Spike Amount		Spike Result		Units	Recoveries			Limits		Notes
	LCS	LCSD	LCS	LCSD		LCS	LCSD	RPD	%Rec	RPD	
QC1130844LCS1, QC1130844LCSD1											
1,2,3-Trichloropropane	0.02	0.02	0.022	0.019	ug/L	110	95	15	50-150	30	

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report
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ALAB : 00030

CONFIDENTIAL

LMC-PET-00001293

Notes and Definitions

B	Analyte was present in an associated method blank. Associated sample data was reported with qualifier.
C	Laboratory Contamination.
D	The sample duplicate RPD was not within control limits, the sample data was reported without further clarification.
DF	Dilution Factor
DW	Sample result is calculated on a dry weigh basis
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
MDL	Method Detection Limit
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
ND	Analyte was not detected or was less than the detection limit.
P	Sample was received without proper preservation according to EPA guidelines.
RDL	Reporting Detection Limit
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
T	Sample was extracted/analyzed past the holding time.

ND = Not Detected or < MDL MDL = Method Detection Limit RDL = Reporting Detection Limit DF = Dilution Factor

ASSOCIATED LABORATORIES

Analytical Results Report

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ALAB: 00030A

CONFIDENTIAL

LMC-PET-00001294

ASSOCIATED LABORATORIES

NARRATIVE

Date: October 31, 2012

Narrative for Lab Request LR: 312094

Client Project Identification:

Client Name: ARCADIS

Project: BOU Burbank

This narrative includes all samples as shown on the attached Lab Request final report.

Data Validation:

Holding Times

Samples were received on October 13th, 2012 intact and at a temperature of 3.0°C. All EPA recommended holding times were met for this project.

Calibration

Initial calibration criteria were met. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

Quality Control Samples

All QC results were within control limits.

Other Anomalies or Comments

Estimated concentrations ("J" Flags) were reported on all samples and method blanks. The following samples have reported "J" flags:

Metals: C-1-CW06 M-W-6
 3871G QC1130599MB1

Anions: B-1-CW20

Hex Chromium: C-1-CW06

ALAB : 000031



CUSTOMER INFORMATION

PROJECT INFORMATION

REQUIRED TURN AROUND TIME:

Standard: X

COMPANY: ARCADIS

PROJECT NAME: POU Burbank

72 Hours: _____

48 Hours: _____

24 Hours: _____

SEND REPORT TO: Eric Gaier

NUMBER: POD38189.0000.00001

826000 + 1000000

123 TCP

Nitrate/Nitrite

EMAIL: _____

ADDRESS: Hollwood City

IDS

General Minerals

Total Chromium

ADDRESS: _____

ADDRESS: Burbank CA

Hexavalent chrome

1/4 dioxane

Thallium (fitted)

PHONE: _____

PO. #: POD 38189.0000.00001

SAMPLED BY: H. Wastner, H. Arushan

Sample ID

Date

Time

Matrix

Container Number/Size

Pres.

ANALYSIS REQUEST

Test Instructions & Comments

Test Instructions & Comments

1 TB101312

10/13/12

0730

W

2 VAS

HCL

X

X

X

X

X

X

X

X

X

2 B-1-CW20

10/13/12

0925

W

10 Various

HCL

X

X

X

X

X

X

X

X

X

3 C-1-CW04

10/13/12

1215

W

8 Various

HCL

X

X

X

X

X

X

X

X

X

4 B-5-CW02

10/13/12

1520

W

8 Various

HCL

X

X

X

X

X

X

X

X

X

5 M-W-6

10/13/12

1325

W

8 Various

HCL

X

X

X

X

X

X

X

X

X

6 ~~M-W-6 Duplicate~~

10/13/12

1325

W

8 Various

HCL

X

X

X

X

X

X

X

X

X

7 C-1-CW08

10/13/12

0930

W

8 Various

HCL

X

X

X

X

X

X

X

X

X

8 38715

10/13/12

0820

W

2 poly

HNO3

X

X

X

X

X

X

X

X

X

9

10

11

12

13

14

15

Total No. of Samples:

Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO3 4 = H2SO4 5 = NaOH 6 = Other

Relinquished by: ARCADIS

Received By: 1.

Relinquished by: 2.

Received By: 3.

Relinquished by: 3.

Received By: 3.

Relinquished by: 3.

Received By: 3.

Relinquished by: 3.

Received By: 3.

Relinquished by: 3.

Received By: 3.

Relinquished by: 3.

Received By: 3.

Relinquished by: 3.

Signature: [Signature]

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Signature: [Signature]

Signature: [Signature]

Printed Name: [Name]

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Printed Name: [Name]

Printed Name: [Name]

Printed Name: [Name]

Printed Name: [Name]

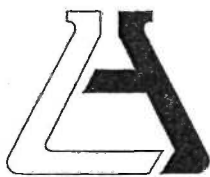
Printed Name: [Name]

Printed Name: [Name]

Printed Name: [Name]

Printed Name: [Name]

Printed Name: [Name]

**ASSOCIATED LABORATORIES**

806 North Batavia - Orange, California 92868 - 714-771-6900

FAX 714-538-1209

SAMPLE ACCEPTANCE CHECKLIST

Section 1	Client: <u>Arcaadis</u>	Project: <u>BOU Burbank</u>
Date Received: <u>10/13/12</u>	Sampler's Name: <u>Yes</u> ☒ <u>No</u> ☐	No (Skip Section 2)
Sample(s) received in cooler: <u>Yes</u> ☒		
Shipping Information:		

Section 2
Was the cooler packed with: <u>X</u> Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other ☐
Cooler or box temperature: <u>3.0C</u>
(Acceptance range is 0 to 6 Deg. C.)

Section 3	YES	NO	N/A
Was a COC received?	☒		
Is it properly completed? (IDs, sampling date and time, signature, test)	☒		
Were custody seals present?		☒	
If Yes - were they intact?			☒
Were all samples sealed in plastic bags?	☒		
Did all samples arrive intact? If no, indicate below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were correct containers used for the tests required?	☒		
Was a sufficient amount of sample sent for tests indicated?	☒		
Was there headspace in VOA vials?		☒	
Were the containers labeled with correct preservatives?	☒		
Was total residual chlorine measured (Fish Bioassay samples only)? *			☒

*: If the answer is no, please inform Fish Bioassay Dept. immediately.

Section 4
Explanations/Comments

Section 5
Was Project Manager notified of discrepancies: <u>Y</u> / <u>N</u> / <u>N/A</u>
Completed By: <u>M. Elbert</u> Date: <u>10/13/12</u>

Created on 7/6/2012 1:29:00 PM

ALAB: 00033

CONFIDENTIAL

LMC-PET-00001297

SM 2320B

ALAB : 00034

Alkalinity

EPA 310.1 / SM 2320B

Analyst J. K.

H2SO4 (0.020 N) ID # 04 04 2012

Date 10 15 2012

Phenolphthalein ID # 01172011

Methyl Orange ID # 05302092

[illegible]

1/31/2012

80 of 100

ALAB : 000005

CONFIDENTIAL

LMC-PET-00001299

SM 2510B

ALAB : 00036

CONFIDENTIAL

LMC-PET-00001300

Electrical Conductivity EPA 120.1 / SM 2510

Date	Lab ID #	Reading	EC	Temp.	Sigh.	Comments
10-16-12	312060-001/1	65.2 uS	65.2	24.5	RV	
	312060-002/1	111.3 uS	111.3	24.6		
	312062-001/2	83.4 uS	83.4	24.6		
	312062-002/1	62.2 uS	62.2	24.8		
	312062-003/2	47.7 uS	47.7	24.7		
	312063-001/1	186.6 uS	186.6	24.8		
	312064-001/4 th	180.5 uS	180.5	25.0		
	312065-001/4	468 uS	468	25.1		
	312066-001/1	278.2 uS	278.2	25.1		
	312066-002/1	271.1 uS	271.1	25.1		
	312066-002/1 dup	272.3 uS	272.3	25.0		
	312067-001/1	48.6 uS	48.6	24.9		
	312067-002/1	36.7 uS	36.7 25.2	25.2		
10/17/12	std 100	99.9	100	21.3	A3	2004171123
	std 1413	1419	1419	21.6	A3	SS 02011250-3
	std 19000	19.10	19100	21.6	A3	CON 081712
	dist water	0.68	0.68	21.5	A3	
11:07 am	311976/001 2	1339 u	1339	23.2	A3	
Dup1	311976/001 2	1335 u	1335	23.8	A3	
2:02 pm	312094/002 10	853 u	853	25.7	A3	hac & dis

SM 2540C

ALAB: 00037 A

CONFIDENTIAL

LMC-PET-00001302

QC1130545 J

ASSOCIATED LABORATORIES

Date 10.15.12

Chem. Dept. Total Dissolved Solids T.D.S. EPA 160-1

Initials RVSAMPLE # MB1

Company _____

	<u>90.2960</u>	<u>1:16 pm</u>	Electroconductivity	<u> </u>	μ mhos/cm
D. Solids + container	<u>90.2865</u>	<u>g. 10:11 am</u>	Sample amount	<u>100</u>	<u>ml</u>
Cont. wt. # _____	<u>90.2892</u>	<u>g. 6:03 pm</u>			
Dissolved solids	<u> </u>	<u>g. </u>	T.D.S.	<u>ND</u>	<u>mg/L</u>

SAMPLE # LC51

Company _____

	<u>94.7715</u>	<u>1:15 pm</u>	Electroconductivity	<u> </u>	μ mhos/cm
D. Solids + container	<u>94.7723</u>	<u>g. 10:19 am</u>	Sample amount	<u>100</u>	<u>ml</u>
Cont. wt. # _____	<u>94.7440</u>	<u>g. 6:10 pm</u>			
Dissolved solids	<u> </u>	<u>g. </u>	T.D.S.	<u>275</u>	<u>mg/L</u>

SAMPLE # 311995-002/3Company Equipment Blank

	<u>118.3780</u>	<u>1:17 pm</u>	Electroconductivity	<u>0.96</u>	μ mhos/cm
D. Solids + container	<u>118.3781</u>	<u>g. 10:29 am</u>	Sample amount	<u>200</u>	<u>ml</u>
Cont. wt. # _____	<u>118.3830</u>	<u>g. 6:21 pm</u>			
Dissolved solids	<u> </u>	<u>g. </u>	T.D.S.	<u>ND</u>	<u>mg/L</u>

SAMPLE # 312080-008/1Company Equipment Blank

	<u>111.0275</u>	<u>1:19 pm</u>	Electroconductivity	<u>0.93</u>	μ mhos/cm
D. Solids + container	<u>111.0279</u>	<u>g. 10:30 am</u>	Sample amount	<u>200</u>	<u>ml</u>
Cont. wt. # _____	<u>111.0325</u>	<u>g. 6:24 pm</u>			
Dissolved solids	<u> </u>	<u>g. </u>	T.D.S.	<u>ND</u>	<u>mg/L</u>

$$\text{T.D.S.} = \frac{\text{Dissolved Solids g}}{\text{Sample Amount ml}} \times \frac{1000 \text{ mg}}{1 \text{ g}} \times \frac{1000 \text{ ml}}{1 \text{ L}}$$

95of200

ALAB: 00038

ASSOCIATED LABORATORIES

Date

10.15.12

Chem. Dept. Total Dissolved Solids T.D.S. EPA 160-1

Initials

RV

SAMPLE # 312080-013/4

Company B-1 CW12

	40.6315	1:10 pm	Electroconductivity	987	µmhos/cm
D. Solids + container	80.6380	g. 10:31 pm	Sample amount	50	ml
Cont. wt. #	- 80.6121	g. 6:29 pm			
Dissolved solids		g.	T.D.S.	508	mg/L

SAMPLE # 312080-014/3

Company B-1 CW12 Dup

	41.5580	1:10 pm	Electroconductivity	980	µmhos/cm
D. Solids + container	81.5583	g. 10:32 am	Sample amount	50	ml
Cont. wt. #	- 41.5326	g. 6:33 pm			
Dissolved solids		g.	T.D.S.	508	mg/L

SAMPLE # 312080-015/1

Company

	43.4927	1:21 pm	Electroconductivity	929	µmhos/cm
D. Solids + container	83.4930	g. 10:37 am	Sample amount	50	ml
Cont. wt. #	- 83.4683	g. 6:35 pm			
Dissolved solids		g.	T.D.S.	488	mg/L

SAMPLE # 312094-002/1

Company B-1 CW20

	40.9523	1:23 pm	Electroconductivity	857	µmhos/cm
D. Solids + container	80.9529	g. 10:35 am	Sample amount	50	ml
Cont. wt. #	- 80.9309	g. 6:40 pm			
Dissolved solids		g.	T.D.S.	428	mg/L

$$\text{T.D.S.} = \frac{\text{Dissolved Solids g} \cdot 1000 \text{ mg}}{\text{Sample Amount ml} \cdot 1 \text{ g}} \cdot \frac{1000 \text{ ml}}{1 \text{ L}}$$

96of200

ALAB: 00035

EPA 218.6

Hexavalent Chromium

ALAB : 00040

CONFIDENTIAL

LMC-PET-00001305

DATA PACKAGE

218.6-CR VI

ALAB : 00041

312094

UV_VIS_1	Name	Type	Level	Position	Volume [µl]	Instrument Method	Processing Method	Status	Inject Time
	MB	Unknown		1	5000	AS7	AS7	Finished	10/18/2012 8:30:18 AM -07:
	MB	Unknown		2	5000	AS7	AS7	Finished	10/18/2012 8:42:48 AM -07:
	MB	Unknown		3	5000	AS7	AS7	Finished	10/18/2012 8:55:45 AM -07:
	STD1 0.5ppb	Calibration Star	01	4	5000	AS7	AS7	Finished	10/18/2012 9:08:41 AM -07:
	STD2 2.5ppb	Calibration Star	02	5	5000	AS7	AS7	Finished	10/18/2012 9:21:38 AM -07:
	STD3 5.0ppb	Calibration Star	03	6	5000	AS7	AS7	Finished	10/18/2012 9:34:34 AM -07:
	STD4 7.5ppb	Calibration Star	04	7	5000	AS7	AS7	Finished	10/18/2012 9:47:31 AM -07:
	STD5 10.0ppb	Calibration Star	05	8	5000	AS7	AS7	Finished	10/18/2012 10:00:26 AM -07:
	MB	Unknown		9	5000	AS7	AS7	Finished	10/19/2012 9:18:14 AM -07:
	MB	Unknown		10	5000	AS7	AS7	Finished	10/19/2012 9:30:37 AM -07:
	Icv 2.5ppb	Unknown		11	5000	AS7	AS7	Finished	10/19/2012 9:43:34 AM -07:
	Ics 5.0ppb	Unknown		12	5000	AS7	AS7	Finished	10/19/2012 9:56:31 AM -07:
	312080-003/2	Unknown		13	5000	AS7	AS7	Finished	10/19/2012 10:16:40 AM -07:
	312080-004/4	Unknown		14	5000	AS7	AS7	Finished	10/19/2012 10:29:36 AM -07:
	312080-005/2	Unknown		15	5000	AS7	AS7	Finished	10/19/2012 10:42:32 AM -07:
	312080-006/1	Unknown		16	5000	AS7	AS7	Finished	10/19/2012 10:55:30 AM -07:
	312080-008/2	Unknown		17	5000	AS7	AS7	Finished	10/19/2012 11:08:27 AM -07:
	312080-009/1	Unknown		18	5000	AS7	AS7	Finished	10/19/2012 11:21:22 AM -07:
	312080-010/2	Unknown		19	5000	AS7	AS7	Finished	10/19/2012 11:34:18 AM -07:
	312080-013/1	Unknown		20	5000	AS7	AS7	Finished	10/19/2012 11:47:14 AM -07:
	cv 4.0ppb	Unknown		21	5000	AS7	AS7	Finished	10/19/2012 12:00:11 PM -07:
	ccb	Unknown		22	5000	AS7	AS7	Finished	10/19/2012 12:13:08 PM -07:
	312080-015/2	Unknown		23	5000	AS7	AS7	Finished	10/19/2012 12:26:04 PM -07:
	312080-015ms	Unknown		24	5000	AS7	AS7	Finished	10/19/2012 12:39:01 PM -07:
	312080-015ms	Unknown		25	5000	AS7	AS7	Finished	10/19/2012 12:51:57 PM -07:
	312324-006/1	Unknown		26	5000	AS7	AS7	Finished	10/19/2012 1:04:53 PM -07:
	312324-006ms	Unknown		27	5000	AS7	AS7	Finished	10/19/2012 1:17:50 PM -07:
	312324-006ms	Unknown		28	5000	AS7	AS7	Finished	10/19/2012 1:30:45 PM -07:
	cv 2.5ppb	Unknown		29	5000	AS7	AS7	Finished	10/19/2012 1:43:42 PM -07:
	312094-003/2	Unknown		31	5000	AS7	AS7	Finished	10/19/2012 1:59:10 PM -07:
	312094-004/1	Unknown		32	5000	AS7	AS7	Finished	10/19/2012 2:12:06 PM -07:
	312094-005/4	Unknown		33	5000	AS7	AS7	Finished	10/19/2012 2:25:03 PM -07:
	312094-006/2	Unknown		34	5000	AS7	AS7	Finished	10/19/2012 2:37:59 PM -07:
	312094-007/1	Unknown		35	5000	AS7	AS7	Finished	10/19/2012 2:50:56 PM -07:
	312094-04ms	Unknown		36	5000	AS7	AS7	Finished	10/19/2012 3:03:53 PM -07:

Sequence: 2012_1019
 Last Update Operator: rybechay

	312094-04msd	Unknown		37	5000	AS7	AS7	Finished	10/19/2012 3:16:49 PM -07:
	ccv 4.0ppb	Unknown		37	5000	AS7	AS7	Finished	10/19/2012 4:01:33 PM -07:
	ccb	Unknown		38	5000	AS7	AS7	Finished	10/19/2012 4:14:18 PM -07:



ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

LMC-PET-00001309

Sequence: 2012_1019
Last Update Operator: rybechay

1.0000	1.0000	1.0000	2ppb
1.0000	1.0000	1.0000	
1.0000	1.0000	1.0000	

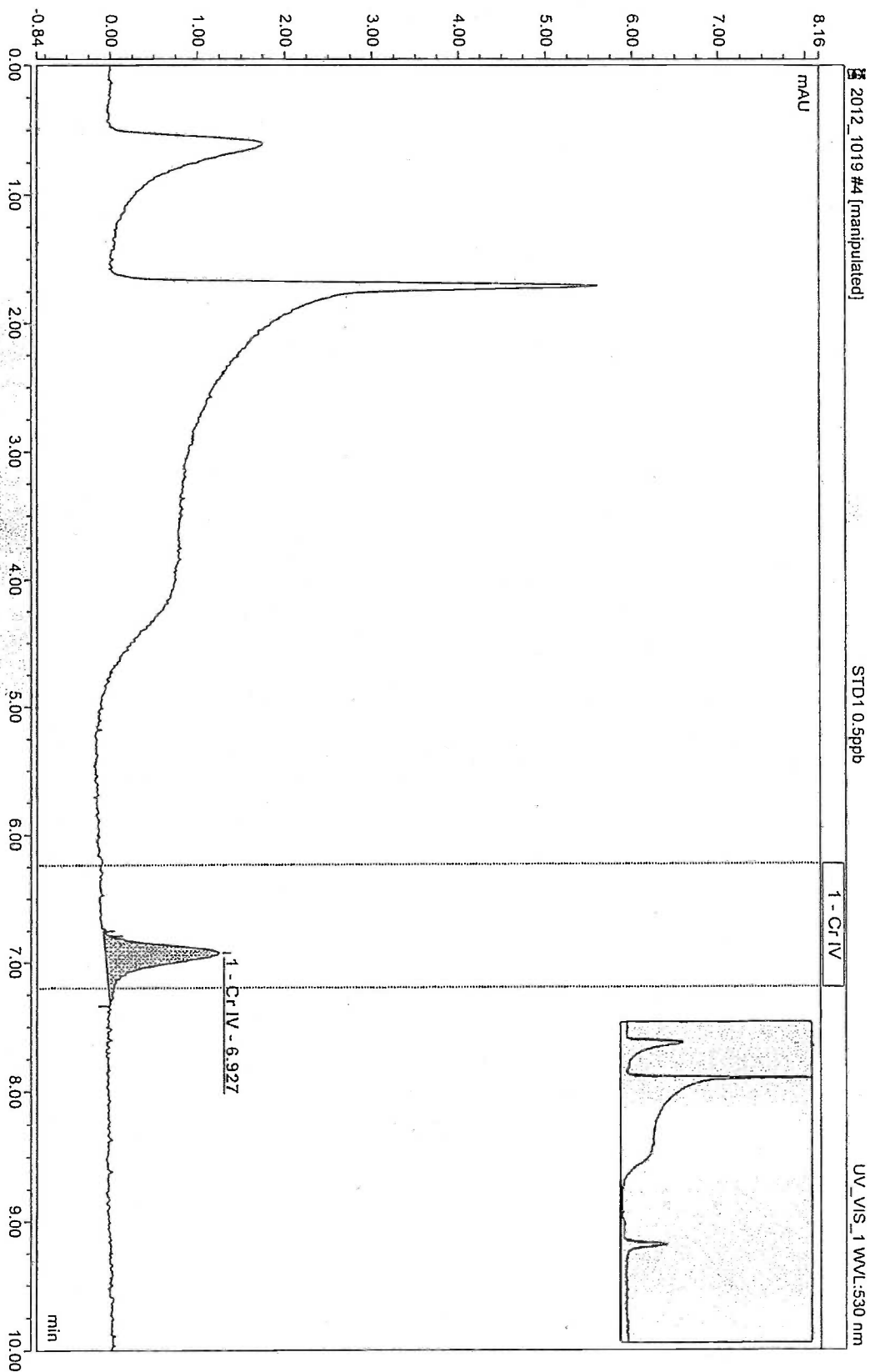


ALAB : 00045

LMC-PET-00001310

Sequence: 2012_1019
Injection #4: STD1 0.5ppb

Chromatogram



ALAB:00045 A

LMC-PET-00001311

Sequence: 2012_1019
Injection #4: STD1 0.5ppb

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.927	0.5092	100.00	0.2288	1.31	BMB*	0.152	1.43	n.a.	11460
Maximum			0.5092	100.00	0.2288	1.31		0.152	1.43	0.00	11460
Minimum			0.5092	100.00	0.2288	1.31		0.152	1.43	0.00	11460
Sum			0.5092	100.00	0.2288	1.31					

ALAB : 00046

Sequence: 2012_1019
Injection #5: STD2 2.5ppb

Peak Results

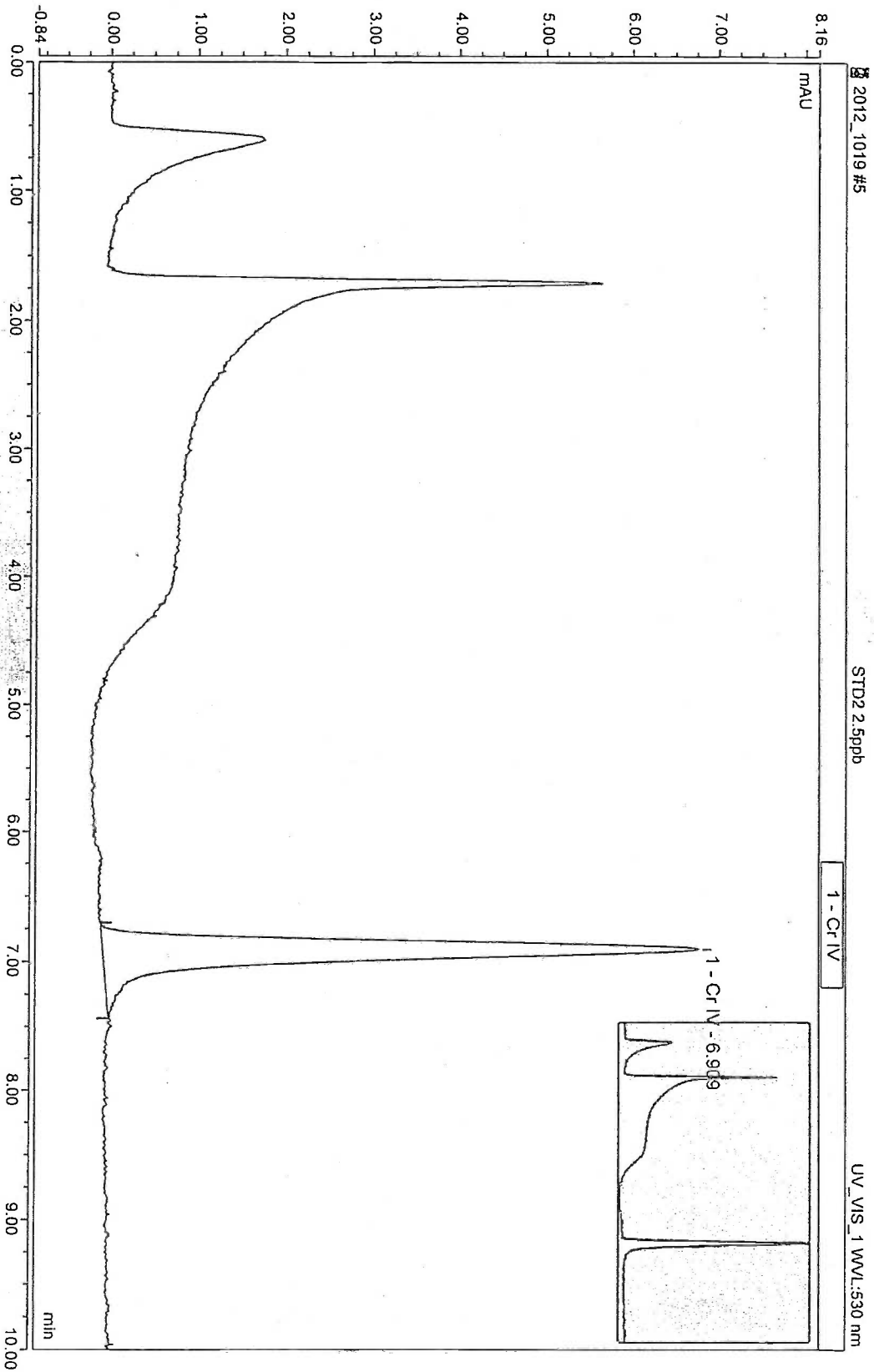
Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.909	2.5408	100.00	1.1417	6.86	M	0.147	1.33	n.a.	12256
Maximum			2.5408	100.00	1.1417	6.86		0.147	1.33	0.00	12256
Minimum			2.5408	100.00	1.1417	6.86		0.147	1.33	0.00	12256
Sum			2.5408	100.00	1.1417	6.86					

LAB: 00047

LMC-PET-00001313

Sequence: 2012_1019
Injection #5: STD2 2.5ppb

Chromatogram



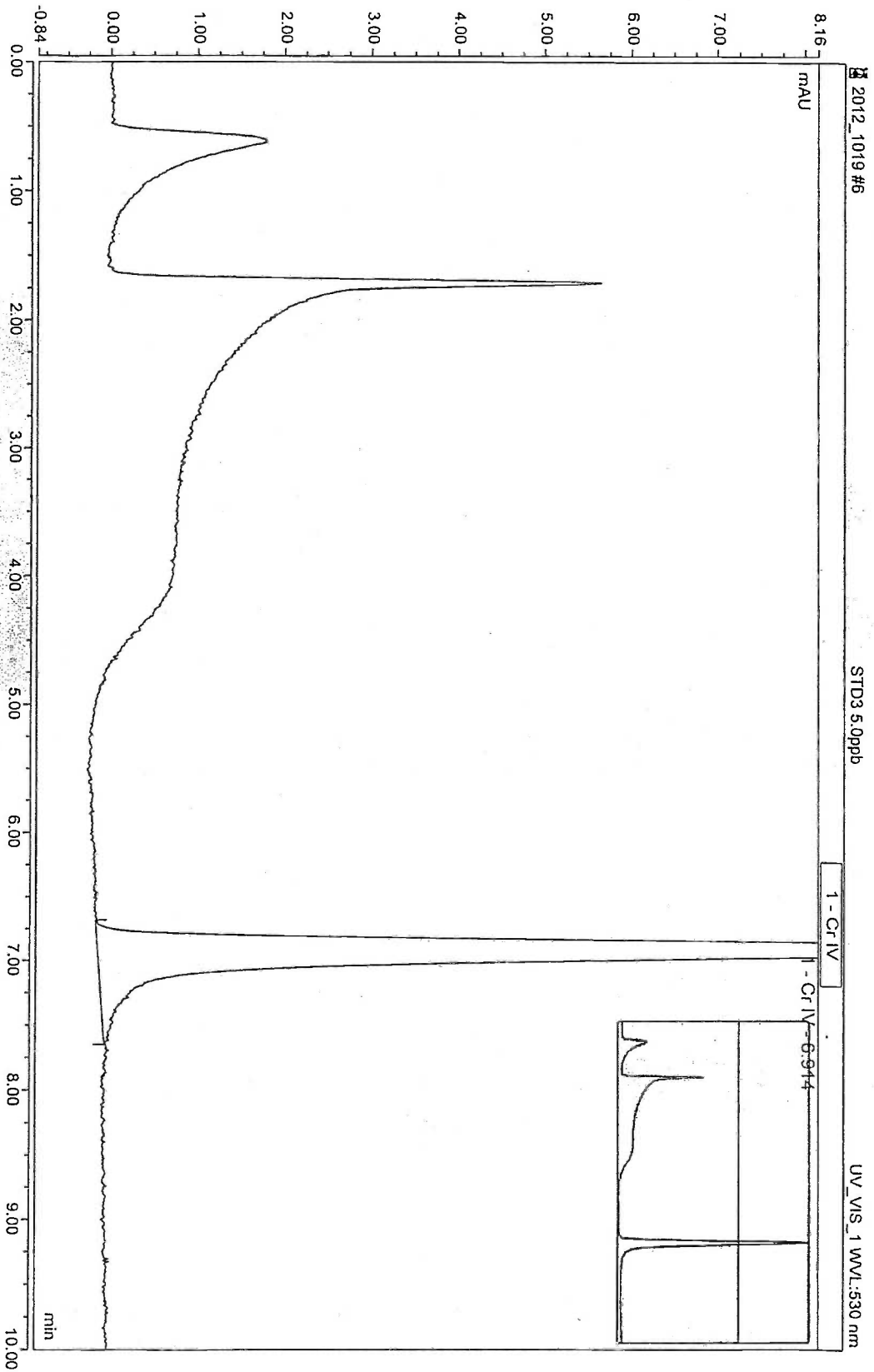
ALAB: 00047 A.

CONFIDENTIAL

LMC-PET-00001314

Sequence: 2012_1019
Injection #6: STD3 5.0ppb

Chromatogram



ALAB : 00048

Sequence: 2012_1019
Injection #6: STD3 5.0ppb

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	GLV	6.914	4.9634	100.00	2.2303	13.09	Major Peak	0.147	1.36	0.00	12230
Maximum			4.9634	100.00	2.2303	13.09		0.147	1.36	0.00	12230
Minimum			4.9634	100.00	2.2303	13.09		0.147	1.36	0.00	12230
Sum			4.9634	100.00	2.2303	13.09					

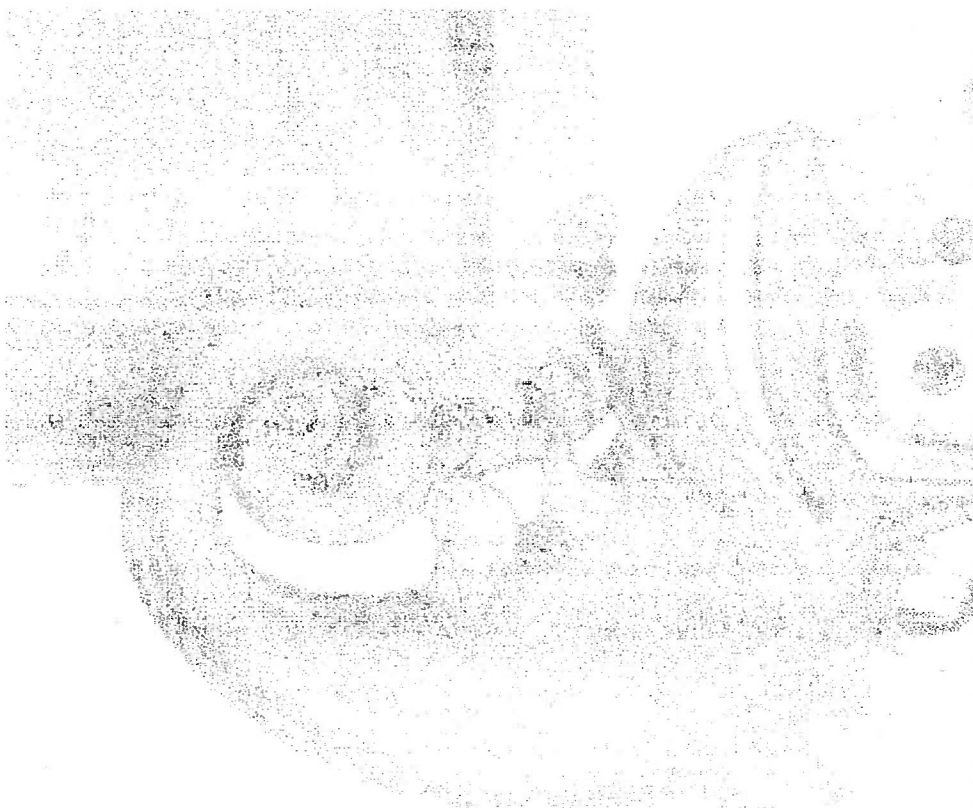


ALAB : 00049

Sequence: 2012_1019
Injection #: 7, STD4 7.5ppb

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	GM	6.912	7.4097	100.00	3.3295	19.47	IM	0.147	1.38	0.00	12241
Maximum			7.4097	100.00	3.3295	19.47					12241
Minimum			7.4097	100.00	3.3295	19.47					12241
Sum			7.4097	100.00	3.3295	19.47					12241



ALAB : 00050

LMC-PET-00001317

Sequence: 2012_1019
Injection #7: STD4 7.5ppb

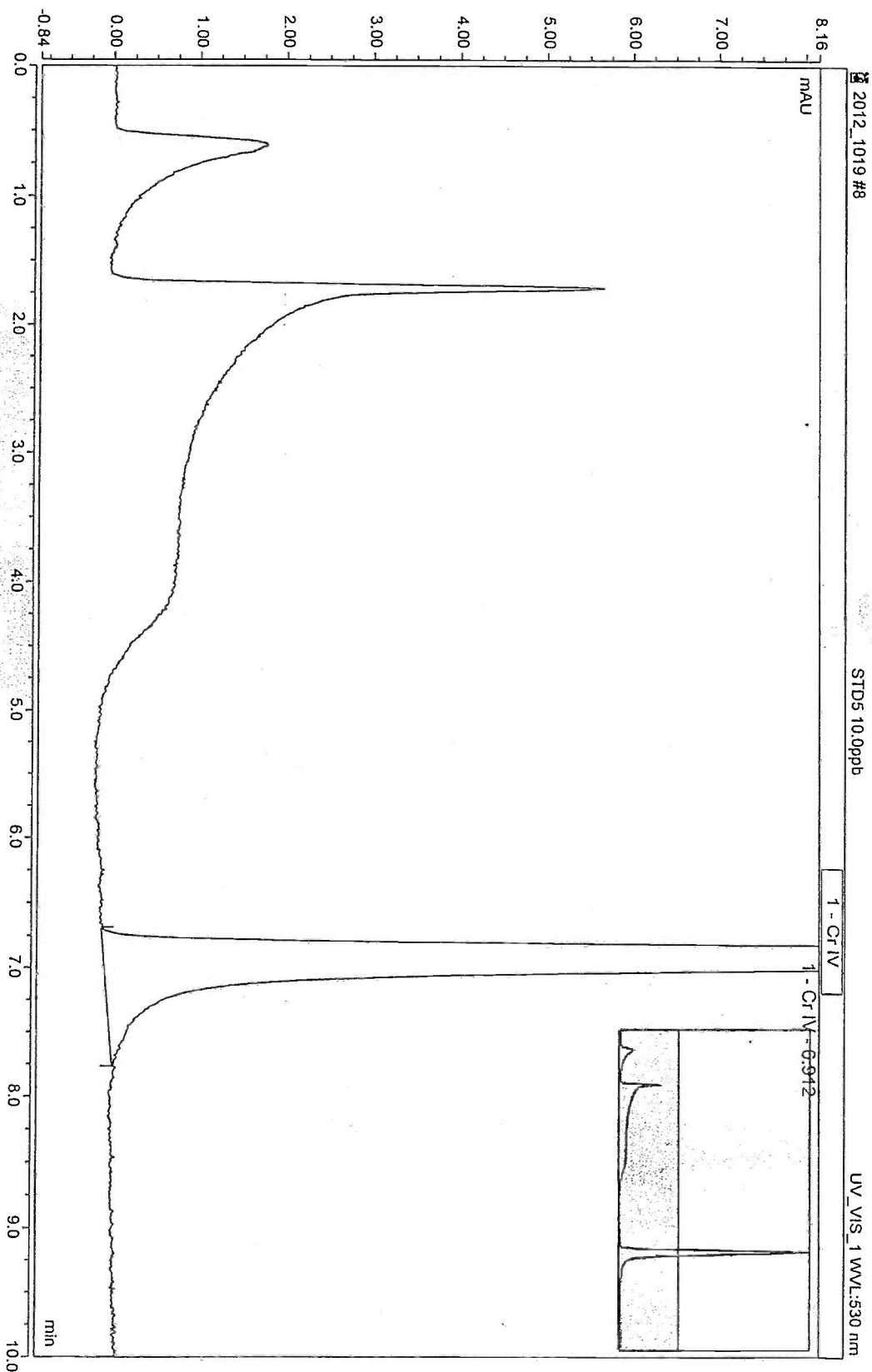
Chromatogram



ALAB : 00051

Sequence: 2012_1019
Injection #8: STD5 10.0ppb

Chromatogram



ALAB: 00051A

LMC-PET-00001319

CONFIDENTIAL

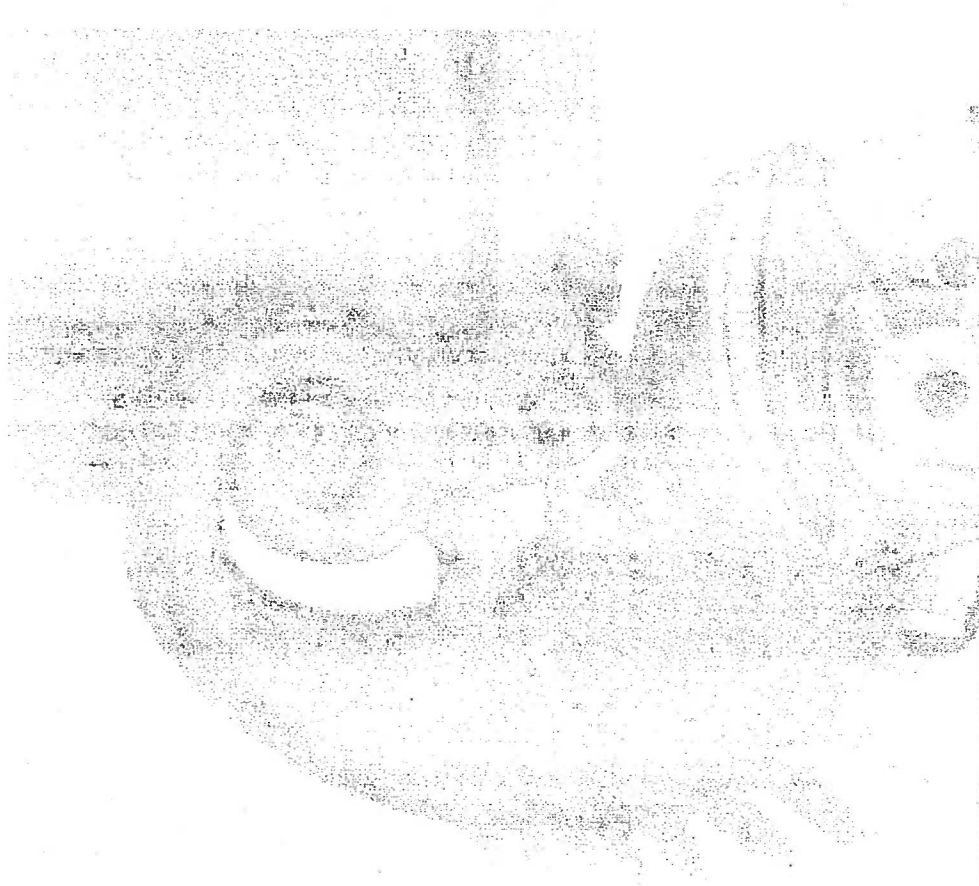
Sequence: 2012_1019
Injection #8: STD5 10.0ppb

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	CIM	6.912	10.0753	100.00	4.5272	26.54	M	0.147	1.39	0.00	12275
Maximum			10.0753	100.00	4.5272	26.54					
Minimum			10.0753	100.00	4.5272	26.54					
Sum			10.0753	100.00	4.5272	26.54					

ALAB : 00052

LMC-PET-00001320



Sequence: 2012_1019
Injection #9: MB

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount n.a.	Rel. Area %	Area mAU min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					

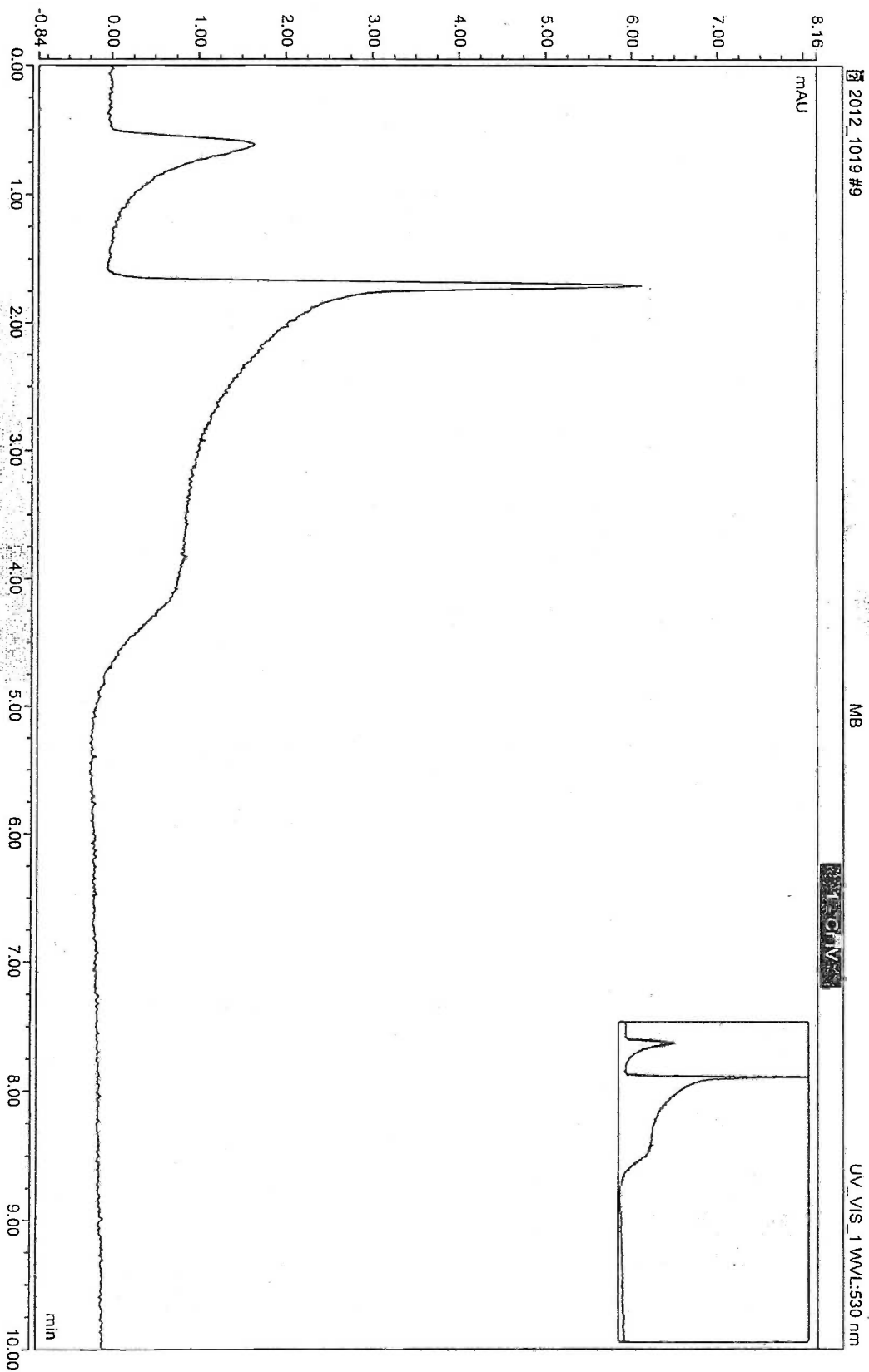


ALAB : 000050

LMC-PET-00001321

Sequence: 2012_1019
Injection #: MB

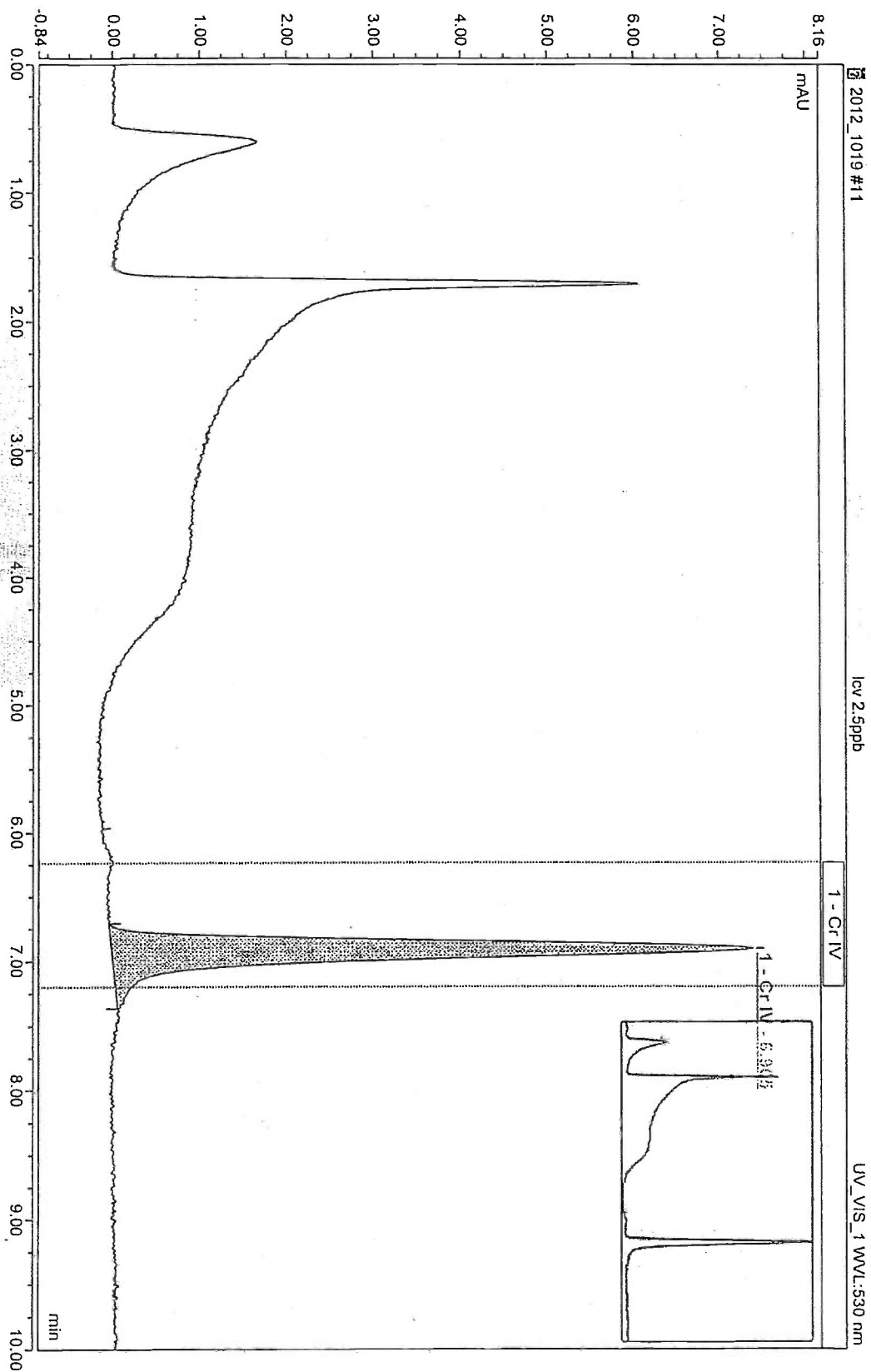
Chromatogram



ALAB : 00054

Sequence: 2012_1019
Injection #11: lcv 2.5ppb

Chromatogram



ALAB : 00055

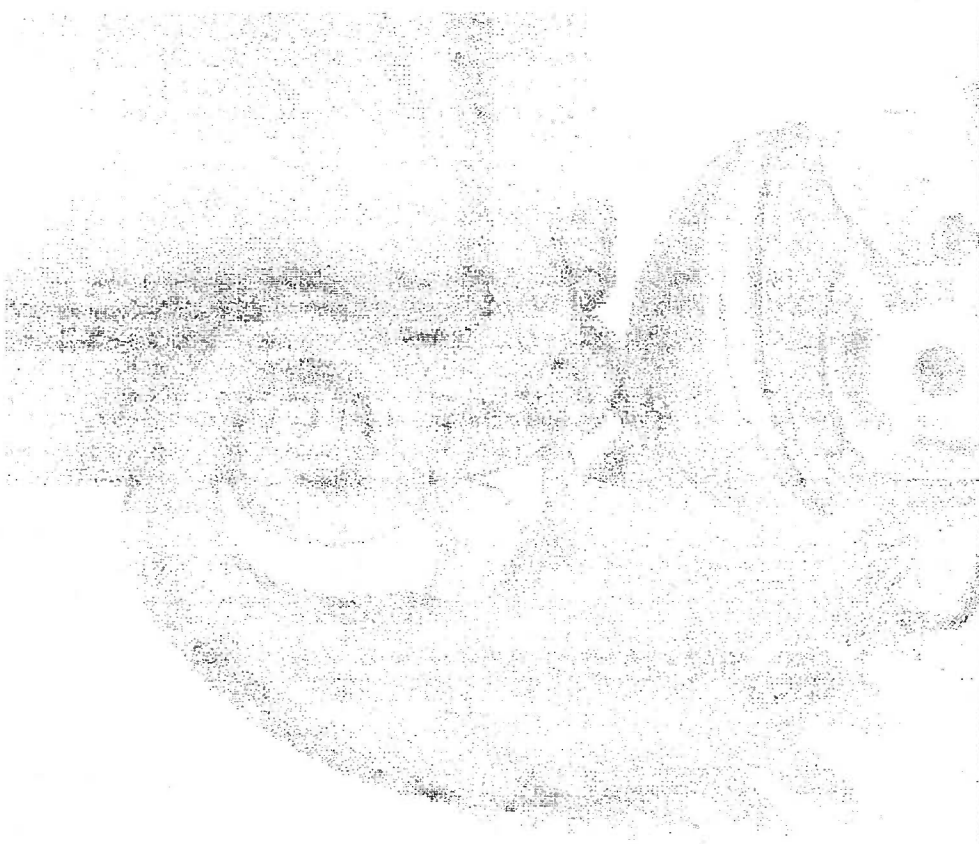
Sequence: 2012_1019
Injection #1: lcv2.5ppb

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.905	2.7084	100.00	1.2170	7.40	M	0.145	1.34	n.a	12509
Maximum			2.7084	100.00	1.2170	7.40		0.145	1.34	0.00	12509
Minimum			2.7084	100.00	1.2170	7.40		0.145	1.34	0.00	12509
Sum			2.7084	100.00	1.2170	7.40					

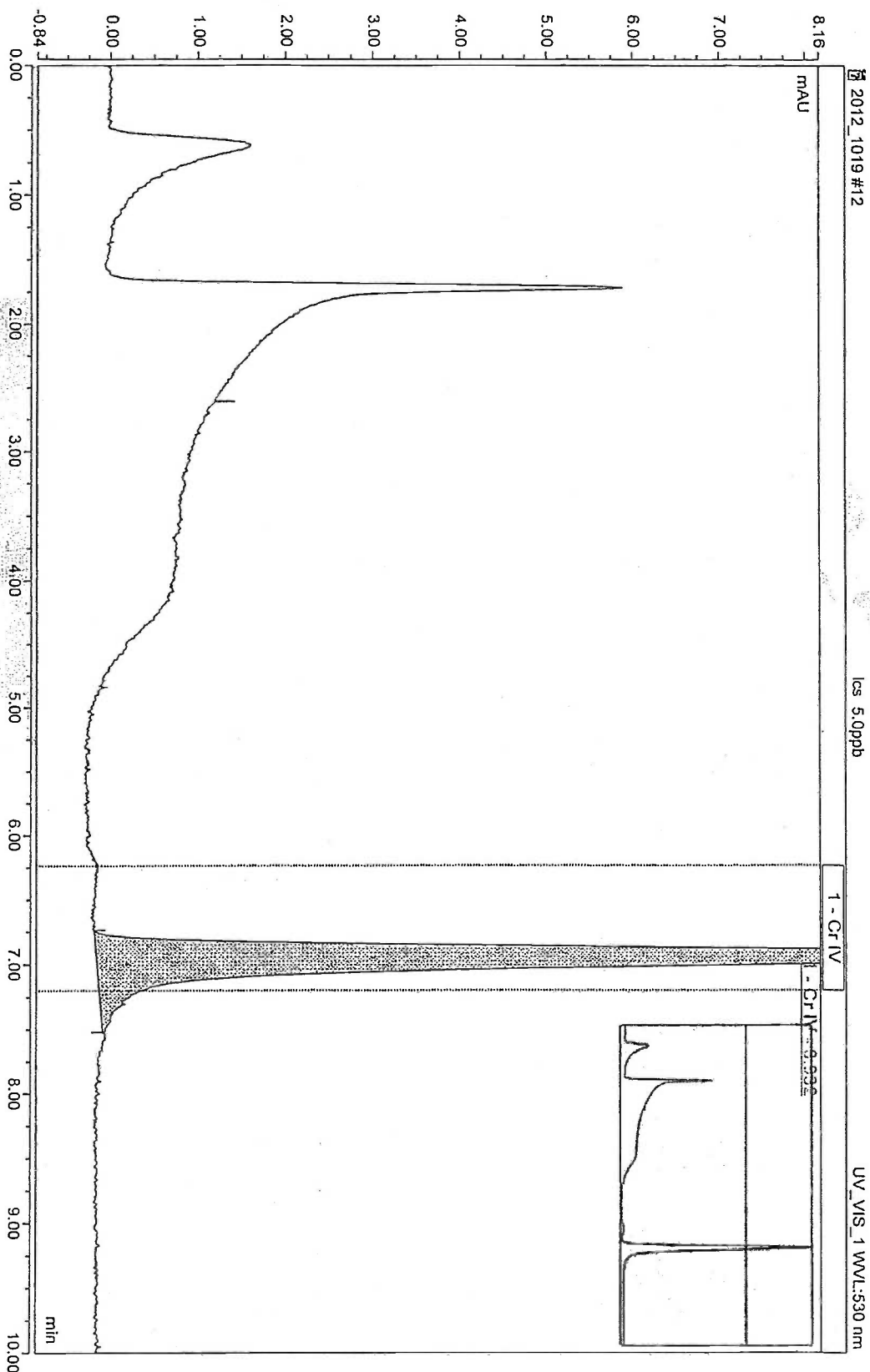
ALAD : 000000

LMC-PET-00001324



Sequence: 2012_1019
Injection #12: lcs 5.0ppb

Chromatogram



ALAB : 00057

Sequence: 2012_1019
Injection #12: lcs 5.0ppb

Peak Results

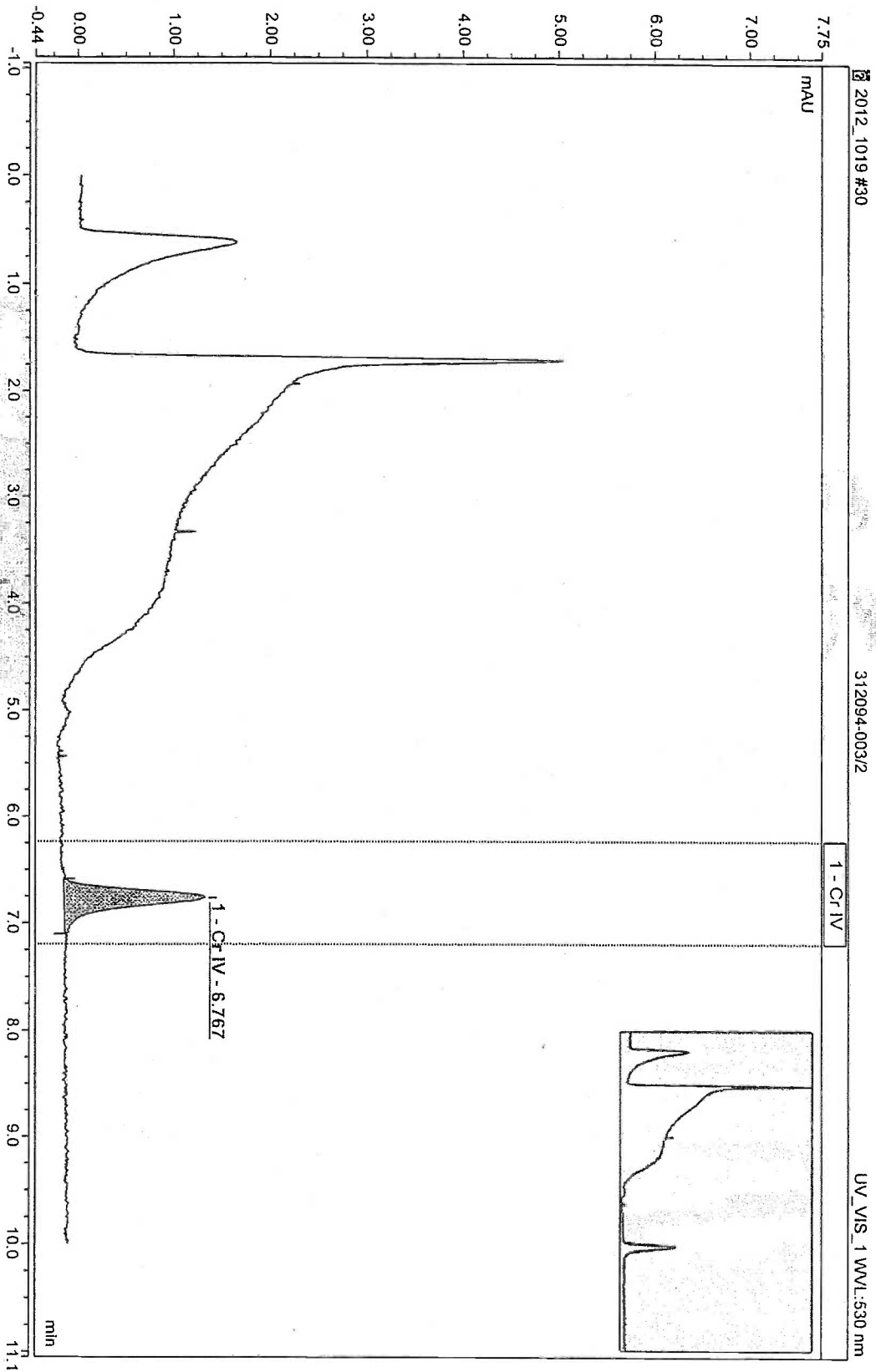
Peak No.	Peak Name	Ret Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.932	4.7726	100.00	2.1445	12.72	M	0.147	1.37	n.a.	12245
Maximum			4.7726	100.00	2.1445	12.72		0.147	1.37	0.00	12245
Minimum			4.7726	100.00	2.1445	12.72		0.147	1.37	0.00	12245
Sum			4.7726	100.00	2.1445	12.72					



ALAB : 000008

Sequence: 2012_1019
Injection #30: 312094-003/2

Chromatogram



ALAB : 000055

Sequence: 2012_1019
Injection #30: 312094-003/2

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount pbb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	C/IV	6.767	0.5858	100.00	0.2632	1.48	M	0.158	1.29	n.a.	10120
Maximum			0.5858	100.00	0.2632	1.48		0.158	1.29	0.00	10120
Minimum			0.5858	100.00	0.2632	1.48		0.158	1.29	0.00	10120
Sum			0.5858	100.00	0.2632	1.48					

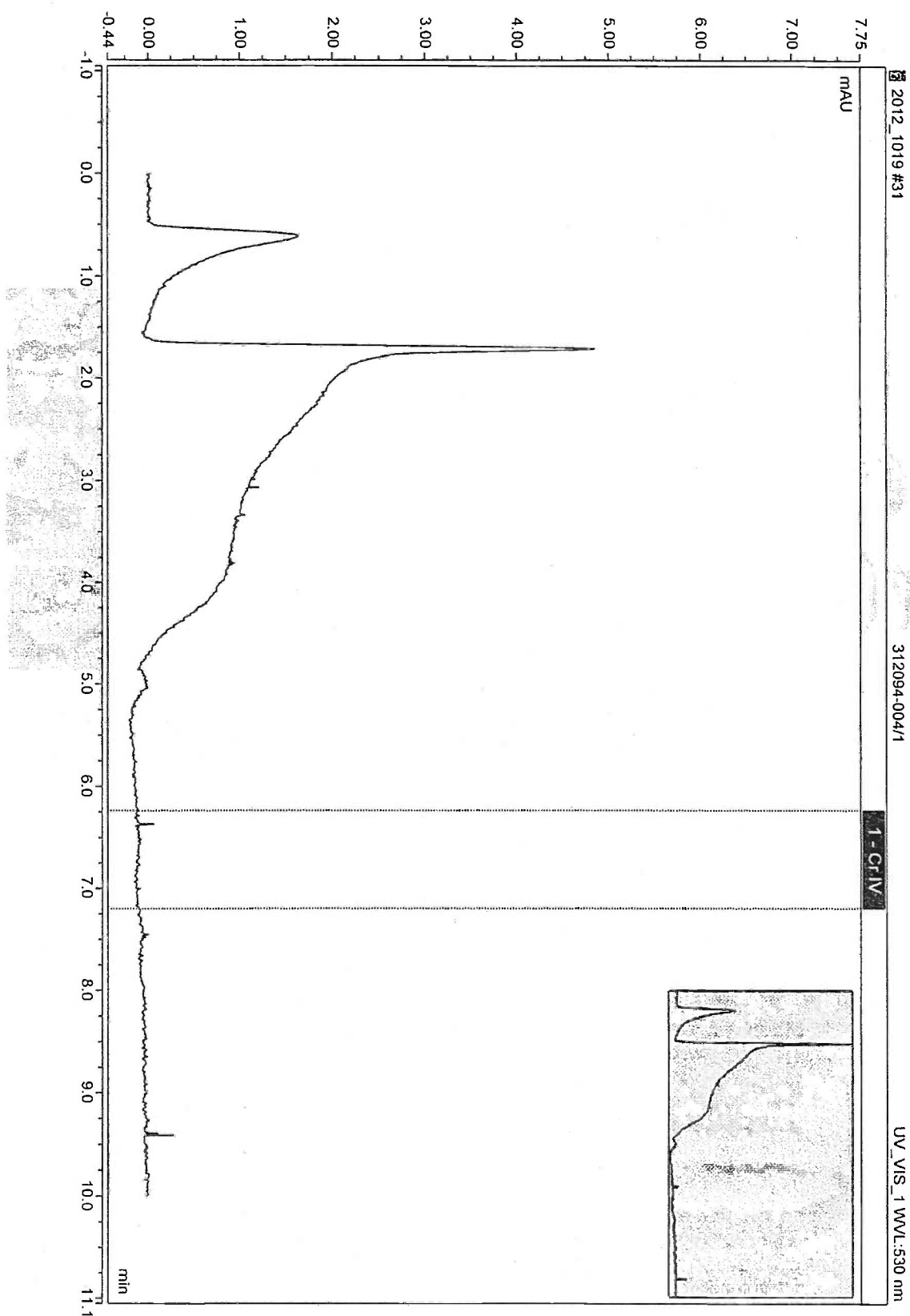


ALAB : 000000

LMC-PET-00001328

Sequence: 2012_1019
Injection #31: 312094-004/1

Chromatogram



ALAB : 000061

CONFIDENTIAL

LMC-PET-00001329

Sequence: 2012_1019
Injection #31: 312094-004/1

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount n.a.	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					

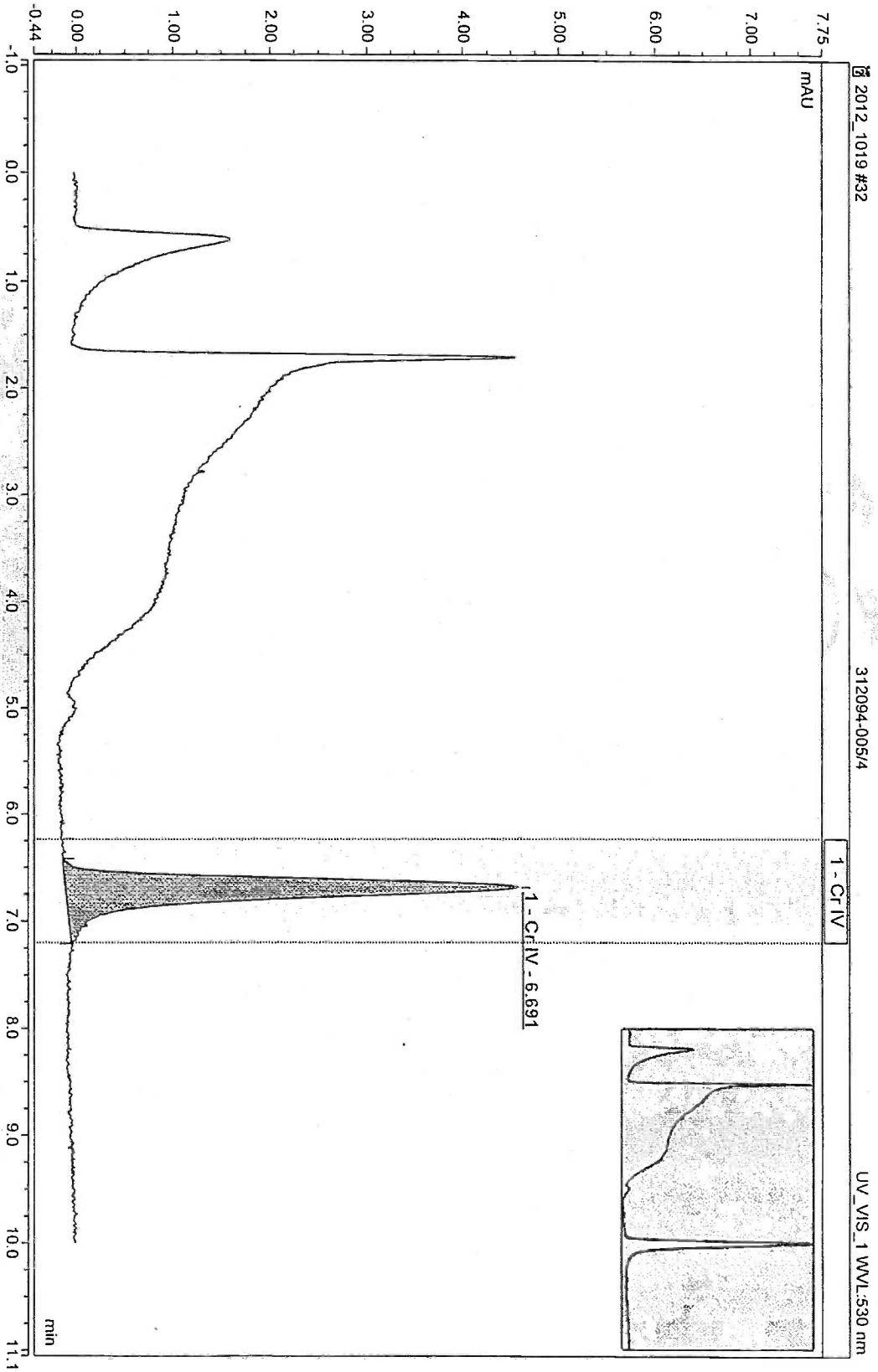


ALAB : 000002

LMC-PET-00001330

Sequence: 2012_1019
Injection #32: 312094-005/4

Chromatogram



ALAB : 000053

Sequence: 2012_1019
Injection #32: 312094-005/4

Peak Results

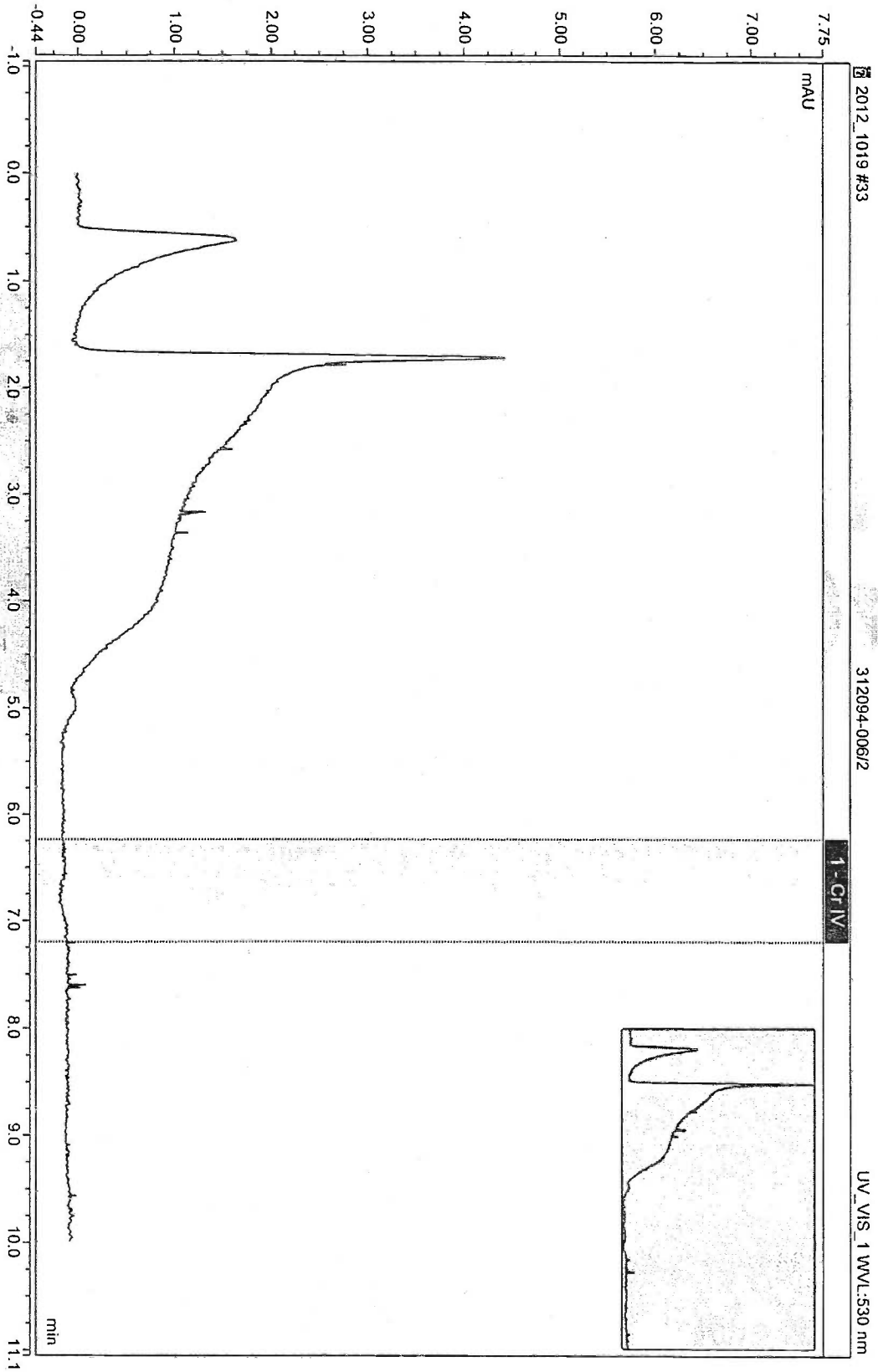
Peak No.	Peak Name	Ret. Time min	Amount pbb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.697	2.2287	100.00	1.0015	4.69	M	0.190	1.35	n.a.	6849
Maximum			2.2287	100.00	1.0015	4.69		0.190	1.35	0.00	6849
Minimum			2.2287	100.00	1.0015	4.69		0.190	1.35	0.00	6849
Sum			2.2287	100.00	1.0015	4.69					



ALAB : 00064

Sequence: 2012_1019
Injection #33: 312094-006/2

Chromatogram



ALAB : 00065

Sequence: 2012_1019
Injection #33: 312094-006/2

Peak Results

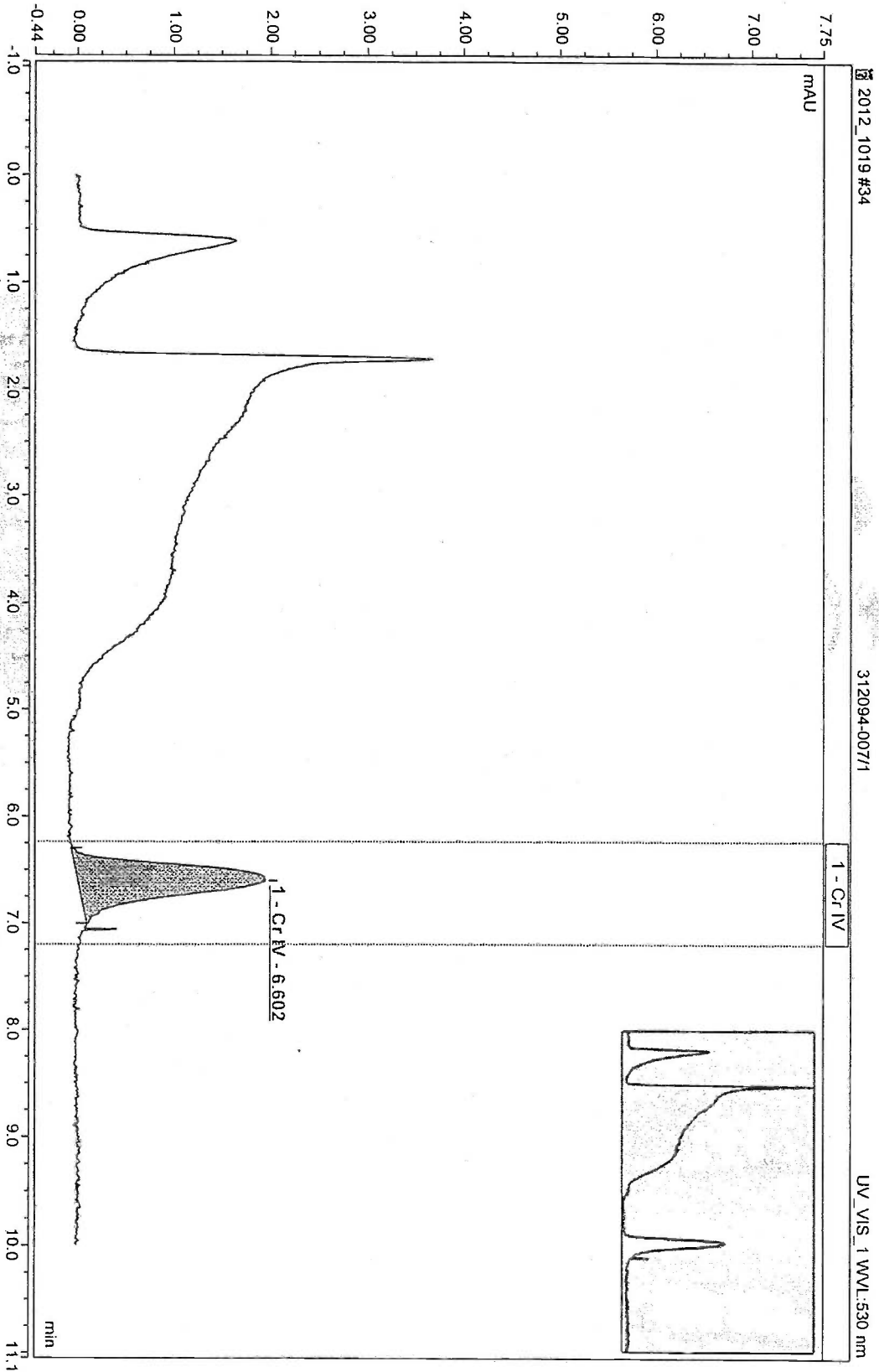
Peak No.	Peak Name	Ret. Time min	Amount n.a.	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
Maximum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Minimum			0.0000	0.00	0.0000	0.00		0.000	0.00	0.00	0
Sum			0.0000	0.00	0.0000	0.00					



ALAB: 000066

Sequence: 2012_1019
Injection #34: 312094-007/1

Chromatogram



ALAB : 000067

Sequence: 2012_1019
Injection #34: 312094-007/1

Peak Results

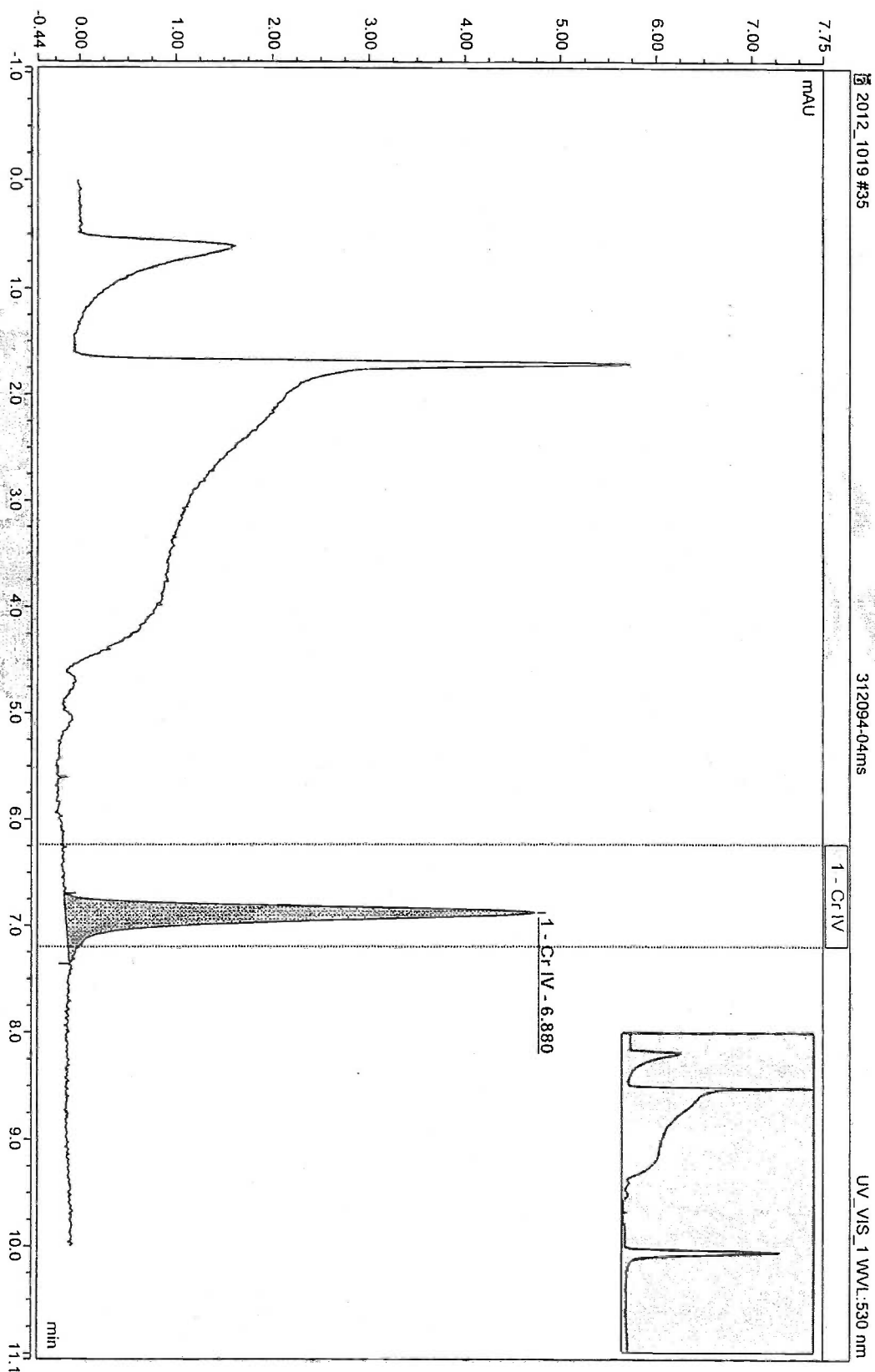
Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.602	1.3558	100.00	0.6092	1.95	M	0.299	1.17	n.a.	2695
Maximum			1.3558	100.00	0.6092	1.95		0.299	1.17	0.00	2695
Minimum			1.3558	100.00	0.6092	1.95		0.299	1.17	0.00	2695
Sum			1.3558	100.00	0.6092	1.95					



ALAB : 000000

Sequence: 2012_1019
Injection #35: 312094-04.ms

Chromatogram

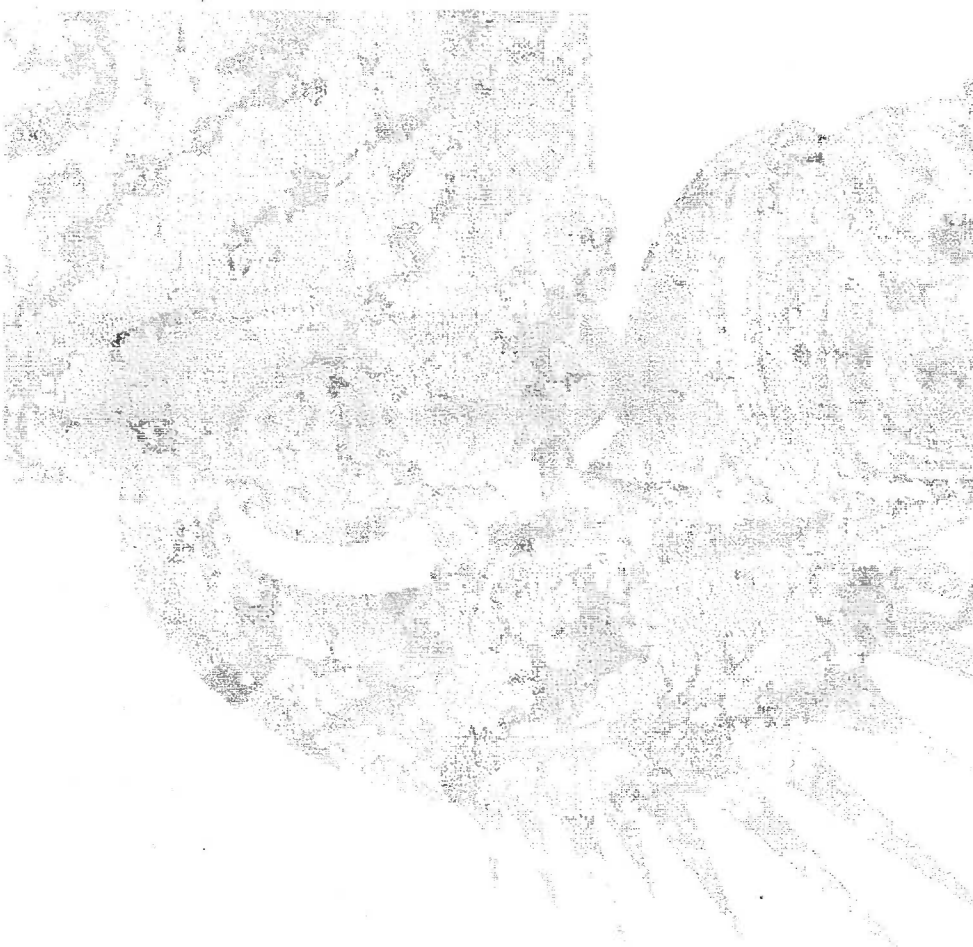


ALAB : 00069

Sequence: 2012_1019
Injection #36: 312094-04ms

Peak Results

Peak No.	Peak Name	Ret. Time min	Amount ppb	Rel. Area %	Area mAU*min	Height mAU	Type	Width (50%) min	Asym. EP	Resol. EP	Plates EP
1	Cr IV	6.880	1.7873	100.00	0.8031	4.88	M	0.146	1.35	n.a.	12353
Maximum			1.7873	100.00	0.8031	4.88		0.146	1.35	0.00	12353
Minimum			1.7873	100.00	0.8031	4.88		0.146	1.35	0.00	12353
Sum			1.7873	100.00	0.8031	4.88					



ALAB : 000070

LMC-PET-00001338