

## Quality Control Results

Client: Malcolm Pirnie, Inc.

Job Number: 560-24843-1

Sdg Number: March 8, 2011

### QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 560-57276</b>					
LCS 560-57276/2-A	Lab Control Sample	T	Water	3010A	
MB 560-57276/1-A	Method Blank	T	Water	3010A	
560-24843-1	ER030711	T	Water	3010A	
560-24843-2	EP-85	D	Water	3010A	
560-24843-2	EP-85	T	Water	3010A	
560-24843-2MS	Matrix Spike	D	Water	3010A	
560-24843-2MS	Matrix Spike	T	Water	3010A	
560-24843-2MSD	Matrix Spike Duplicate	D	Water	3010A	
560-24843-2MSD	Matrix Spike Duplicate	T	Water	3010A	
560-24843-3	EP-81	T	Water	3010A	
560-24843-4	OBS-1	T	Water	3010A	
560-24843-5	EP-122	T	Water	3010A	
560-24843-6	EP-119	T	Water	3010A	
560-24843-7	EP-62	T	Water	3010A	
560-24843-8	EP-135	T	Water	3010A	
560-24843-9	EP-4	T	Water	3010A	
560-24843-10	EP-6	T	Water	3010A	
560-24843-11	EP-7	T	Water	3010A	
560-24843-12	EP-133	T	Water	3010A	
560-24843-13FD	FD030711	T	Water	3010A	
560-24843-14	FD030711-2	T	Water	3010A	
<b>Prep Batch: 560-57290</b>					
LCS 560-57290/2-A	Lab Control Sample	T	Water	3010A	
MB 560-57290/1-A	Method Blank	T	Water	3010A	
560-24843-1	ER030711	D	Water	3010A	
560-24843-3	EP-81	D	Water	3010A	
560-24843-4	OBS-1	D	Water	3010A	
560-24843-5	EP-122	D	Water	3010A	
560-24843-6	EP-119	D	Water	3010A	
<b>Prep Batch: 560-57291</b>					
LCS 560-57291/2-A	Lab Control Sample	T	Water	3010A	
MB 560-57291/1-A	Method Blank	T	Water	3010A	
560-24843-7	EP-62	D	Water	3010A	
560-24843-7MS	Matrix Spike	D	Water	3010A	
560-24843-7MSD	Matrix Spike Duplicate	D	Water	3010A	
560-24843-8	EP-135	D	Water	3010A	
560-24843-9	EP-4	D	Water	3010A	
560-24843-10	EP-6	D	Water	3010A	
560-24843-11	EP-7	D	Water	3010A	
560-24843-12	EP-133	D	Water	3010A	
560-24843-13FD	FD030711	D	Water	3010A	
560-24843-14	FD030711-2	D	Water	3010A	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Analysis Batch:560-57339</b>					
LCS 560-57276/2-A	Lab Control Sample	T	Water	6010B	560-57276
MB 560-57276/1-A	Method Blank	T	Water	6010B	560-57276
560-24843-1	ER030711	T	Water	6010B	560-57276
560-24843-2	EP-85	T	Water	6010B	560-57276
560-24843-2MS	Matrix Spike	T	Water	6010B	560-57276
560-24843-2MSD	Matrix Spike Duplicate	T	Water	6010B	560-57276
560-24843-3	EP-81	T	Water	6010B	560-57276
560-24843-4	OBS-1	T	Water	6010B	560-57276
560-24843-5	EP-122	T	Water	6010B	560-57276
560-24843-6	EP-119	T	Water	6010B	560-57276
560-24843-7	EP-62	T	Water	6010B	560-57276
560-24843-8	EP-135	T	Water	6010B	560-57276
560-24843-9	EP-4	T	Water	6010B	560-57276
560-24843-10	EP-6	T	Water	6010B	560-57276
560-24843-11	EP-7	T	Water	6010B	560-57276
560-24843-12	EP-133	T	Water	6010B	560-57276
560-24843-13FD	FD030711	T	Water	6010B	560-57276
560-24843-14	FD030711-2	T	Water	6010B	560-57276
<b>Analysis Batch:560-57348</b>					
LCS 560-57290/2-A	Lab Control Sample	T	Water	6020	560-57290
MB 560-57290/1-A	Method Blank	T	Water	6020	560-57290
560-24843-1	ER030711	D	Water	6020	560-57290
560-24843-3	EP-81	D	Water	6020	560-57290
560-24843-4	OBS-1	D	Water	6020	560-57290
560-24843-5	EP-122	D	Water	6020	560-57290
560-24843-6	EP-119	D	Water	6020	560-57290

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Prep Batch: 560-57509</b>					
LCS 560-57509/31-A	Lab Control Sample	T	Water	7470A	
MB 560-57509/30-A	Method Blank	T	Water	7470A	
560-24843-1	ER030711	D	Water	7470A	
560-24843-1MS	Matrix Spike	D	Water	7470A	
560-24843-1MSD	Matrix Spike Duplicate	D	Water	7470A	
560-24843-2	EP-85	D	Water	7470A	
560-24843-3	EP-81	D	Water	7470A	
560-24843-4	OBS-1	D	Water	7470A	
560-24843-5	EP-122	D	Water	7470A	
560-24843-6	EP-119	D	Water	7470A	
560-24843-7	EP-62	D	Water	7470A	
560-24843-8	EP-135	D	Water	7470A	
560-24843-9	EP-4	D	Water	7470A	
560-24843-10	EP-6	D	Water	7470A	
560-24843-11	EP-7	D	Water	7470A	
560-24843-12	EP-133	D	Water	7470A	
560-24843-13FD	FD030711	D	Water	7470A	
560-24843-14	FD030711-2	D	Water	7470A	
<b>Analysis Batch:560-57545</b>					
LCS 560-57509/31-A	Lab Control Sample	T	Water	7470A	560-57509
MB 560-57509/30-A	Method Blank	T	Water	7470A	560-57509
560-24843-1	ER030711	D	Water	7470A	560-57509
560-24843-1MS	Matrix Spike	D	Water	7470A	560-57509
560-24843-1MSD	Matrix Spike Duplicate	D	Water	7470A	560-57509
560-24843-2	EP-85	D	Water	7470A	560-57509
560-24843-3	EP-81	D	Water	7470A	560-57509
560-24843-4	OBS-1	D	Water	7470A	560-57509
560-24843-5	EP-122	D	Water	7470A	560-57509
560-24843-6	EP-119	D	Water	7470A	560-57509
560-24843-7	EP-62	D	Water	7470A	560-57509
560-24843-8	EP-135	D	Water	7470A	560-57509
560-24843-9	EP-4	D	Water	7470A	560-57509
560-24843-10	EP-6	D	Water	7470A	560-57509
560-24843-11	EP-7	D	Water	7470A	560-57509
560-24843-12	EP-133	D	Water	7470A	560-57509
560-24843-13FD	FD030711	D	Water	7470A	560-57509
560-24843-14	FD030711-2	D	Water	7470A	560-57509

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Analysis Batch:560-57595</b>					
LCS 560-57615/4-A	Lab Control Sample	T	Water	7470A	560-57615
MB 560-57615/3-A	Method Blank	T	Water	7470A	560-57615
560-24843-1	ER030711	T	Water	7470A	560-57615
560-24843-2	EP-85	T	Water	7470A	560-57615
560-24843-3	EP-81	T	Water	7470A	560-57615
560-24843-4	OBS-1	T	Water	7470A	560-57615
560-24843-5	EP-122	T	Water	7470A	560-57615
560-24843-6	EP-119	T	Water	7470A	560-57615
560-24843-7	EP-62	T	Water	7470A	560-57615
560-24843-8	EP-135	T	Water	7470A	560-57615
560-24843-9	EP-4	T	Water	7470A	560-57615
560-24843-10	EP-6	T	Water	7470A	560-57615
560-24843-11	EP-7	T	Water	7470A	560-57615
560-24843-12	EP-133	T	Water	7470A	560-57615
560-24843-13FD	FD030711	T	Water	7470A	560-57615
560-24843-14	FD030711-2	T	Water	7470A	560-57615
<b>Prep Batch: 560-57615</b>					
LCS 560-57615/4-A	Lab Control Sample	T	Water	7470A	
MB 560-57615/3-A	Method Blank	T	Water	7470A	
560-24843-1	ER030711	T	Water	7470A	
560-24843-2	EP-85	T	Water	7470A	
560-24843-3	EP-81	T	Water	7470A	
560-24843-4	OBS-1	T	Water	7470A	
560-24843-5	EP-122	T	Water	7470A	
560-24843-6	EP-119	T	Water	7470A	
560-24843-7	EP-62	T	Water	7470A	
560-24843-8	EP-135	T	Water	7470A	
560-24843-9	EP-4	T	Water	7470A	
560-24843-10	EP-6	T	Water	7470A	
560-24843-11	EP-7	T	Water	7470A	
560-24843-12	EP-133	T	Water	7470A	
560-24843-13FD	FD030711	T	Water	7470A	
560-24843-14	FD030711-2	T	Water	7470A	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Metals</b>					
<b>Analysis Batch:560-58020</b>					
LCS 560-57276/2-A	Lab Control Sample	T	Water	6020	560-57276
MB 560-57276/1-A	Method Blank	T	Water	6020	560-57276
LCS 560-57291/2-A	Lab Control Sample	T	Water	6020	560-57291
MB 560-57291/1-A	Method Blank	T	Water	6020	560-57291
560-24843-1	ER030711	T	Water	6020	560-57276
560-24843-2	EP-85	D	Water	6020	560-57276
560-24843-2	EP-85	T	Water	6020	560-57276
560-24843-2MS	Matrix Spike	D	Water	6020	560-57276
560-24843-2MSD	Matrix Spike Duplicate	D	Water	6020	560-57276
560-24843-3	EP-81	T	Water	6020	560-57276
560-24843-4	OBS-1	T	Water	6020	560-57276
560-24843-5	EP-122	T	Water	6020	560-57276
560-24843-6	EP-119	T	Water	6020	560-57276
560-24843-7	EP-62	T	Water	6020	560-57276
560-24843-7	EP-62	D	Water	6020	560-57291
560-24843-7MS	Matrix Spike	D	Water	6020	560-57291
560-24843-7MSD	Matrix Spike Duplicate	D	Water	6020	560-57291
560-24843-8	EP-135	T	Water	6020	560-57276
560-24843-8	EP-135	D	Water	6020	560-57291
560-24843-9	EP-4	T	Water	6020	560-57276
560-24843-9	EP-4	D	Water	6020	560-57291
560-24843-10	EP-6	T	Water	6020	560-57276
560-24843-10	EP-6	D	Water	6020	560-57291
560-24843-11	EP-7	T	Water	6020	560-57276
560-24843-11	EP-7	D	Water	6020	560-57291
560-24843-12	EP-133	T	Water	6020	560-57276
560-24843-12	EP-133	D	Water	6020	560-57291
560-24843-13FD	FD030711	T	Water	6020	560-57276
560-24843-13FD	FD030711	D	Water	6020	560-57291
560-24843-14	FD030711-2	T	Water	6020	560-57276
560-24843-14	FD030711-2	D	Water	6020	560-57291

**Report Basis**

D = Dissolved

T = Total

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Analysis Batch:560-57222</b>					
LCS 560-57222/37	Lab Control Sample	T	Water	300.0	
MB 560-57222/36	Method Blank	T	Water	300.0	
MB 560-57222/4	Method Blank	T	Water	300.0	
560-24843-1	ER030711	T	Water	300.0	
560-24843-2	EP-85	T	Water	300.0	
560-24843-3	EP-81	T	Water	300.0	
560-24843-4	OBS-1	T	Water	300.0	
560-24843-5	EP-122	T	Water	300.0	
560-24843-5MS	Matrix Spike	T	Water	300.0	
560-24843-5MSD	Matrix Spike Duplicate	T	Water	300.0	
560-24843-6	EP-119	T	Water	300.0	
560-24843-7	EP-62	T	Water	300.0	
560-24843-8	EP-135	T	Water	300.0	
560-24843-9	EP-4	T	Water	300.0	
560-24843-10	EP-6	T	Water	300.0	
560-24843-11	EP-7	T	Water	300.0	
560-24843-12	EP-133	T	Water	300.0	
560-24843-13FD	FD030711	T	Water	300.0	
560-24843-14	FD030711-2	T	Water	300.0	
560-24843-14MS	Matrix Spike	T	Water	300.0	
560-24843-14MSD	Matrix Spike Duplicate	T	Water	300.0	
<b>Analysis Batch:560-57365</b>					
MB 560-57365/1	Method Blank	T	Water	160.2	
MB 560-57365/21	Method Blank	T	Water	160.2	
560-24843-1	ER030711	T	Water	160.2	
560-24843-2	EP-85	T	Water	160.2	
560-24843-3	EP-81	T	Water	160.2	
560-24843-4	OBS-1	T	Water	160.2	
560-24843-5	EP-122	T	Water	160.2	
560-24843-6	EP-119	T	Water	160.2	
560-24843-7	EP-62	T	Water	160.2	
560-24843-8	EP-135	T	Water	160.2	
560-24843-9	EP-4	T	Water	160.2	
560-24843-10	EP-6	T	Water	160.2	
560-24843-11	EP-7	T	Water	160.2	
560-24843-12	EP-133	T	Water	160.2	
560-24843-12DU	Duplicate	T	Water	160.2	
560-24843-13FD	FD030711	T	Water	160.2	
560-24843-14	FD030711-2	T	Water	160.2	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Analysis Batch:560-57419</b>					
LCS 560-57419/55	Lab Control Sample	T	Water	340.2	
MB 560-57419/3	Method Blank	T	Water	340.2	
MB 560-57419/56	Method Blank	T	Water	340.2	
560-24843-1	ER030711	T	Water	340.2	
560-24843-1MS	Matrix Spike	T	Water	340.2	
560-24843-1MSD	Matrix Spike Duplicate	T	Water	340.2	
560-24843-2	EP-85	T	Water	340.2	
560-24843-3	EP-81	T	Water	340.2	
560-24843-4	OBS-1	T	Water	340.2	
560-24843-5	EP-122	T	Water	340.2	
560-24843-6	EP-119	T	Water	340.2	
560-24843-7	EP-62	T	Water	340.2	
560-24843-8	EP-135	T	Water	340.2	
<b>Analysis Batch:560-57441</b>					
LCS 560-57441/4	Lab Control Sample	T	Water	376.2	
MB 560-57441/3	Method Blank	T	Water	376.2	
560-24843-1	ER030711	T	Water	376.2	
560-24843-2	EP-85	T	Water	376.2	
560-24843-3	EP-81	T	Water	376.2	
560-24843-4	OBS-1	T	Water	376.2	
560-24843-5	EP-122	T	Water	376.2	
560-24843-6	EP-119	T	Water	376.2	
560-24843-7	EP-62	T	Water	376.2	
560-24843-8	EP-135	T	Water	376.2	
560-24843-9	EP-4	T	Water	376.2	
560-24843-10	EP-6	T	Water	376.2	
560-24843-10MS	Matrix Spike	T	Water	376.2	
560-24843-10MSD	Matrix Spike Duplicate	T	Water	376.2	
560-24843-11	EP-7	T	Water	376.2	
560-24843-12	EP-133	T	Water	376.2	
560-24843-13FD	FD030711	T	Water	376.2	
560-24843-14	FD030711-2	T	Water	376.2	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Analysis Batch:560-57460</b>					
LCS 560-57460/2	Lab Control Sample	T	Water	160.1	
MB 560-57460/1	Method Blank	T	Water	160.1	
560-24843-1	ER030711	T	Water	160.1	
560-24843-1MS	Matrix Spike	T	Water	160.1	
560-24843-1MSD	Matrix Spike Duplicate	T	Water	160.1	
560-24843-2	EP-85	T	Water	160.1	
560-24843-3	EP-81	T	Water	160.1	
560-24843-4	OBS-1	T	Water	160.1	
560-24843-5	EP-122	T	Water	160.1	
560-24843-6	EP-119	T	Water	160.1	
560-24843-7	EP-62	T	Water	160.1	
560-24843-8	EP-135	T	Water	160.1	
560-24843-9	EP-4	T	Water	160.1	
560-24843-10	EP-6	T	Water	160.1	
560-24843-11	EP-7	T	Water	160.1	
560-24843-12	EP-133	T	Water	160.1	
560-24843-13FD	FD030711	T	Water	160.1	
560-24843-13MS	Matrix Spike	T	Water	160.1	
560-24843-13MSD	Matrix Spike Duplicate	T	Water	160.1	
560-24843-14	FD030711-2	T	Water	160.1	
<b>Analysis Batch:560-57560</b>					
LCS 560-57560/4	Lab Control Sample	T	Water	340.2	
MB 560-57560/3	Method Blank	T	Water	340.2	
560-24843-9	EP-4	T	Water	340.2	
560-24843-10	EP-6	T	Water	340.2	
560-24843-11	EP-7	T	Water	340.2	
560-24843-12	EP-133	T	Water	340.2	
560-24843-13FD	FD030711	T	Water	340.2	
560-24843-14	FD030711-2	T	Water	340.2	



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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Analysis Batch:560-57614</b>					
LCS 560-57614/1	Lab Control Sample	T	Water	SM 2320B	
LCS 560-57614/45	Lab Control Sample	T	Water	SM 2320B	
560-24843-1	ER030711	T	Water	SM 2320B	
560-24843-1MS	Matrix Spike	T	Water	SM 2320B	
560-24843-1MSD	Matrix Spike Duplicate	T	Water	SM 2320B	
560-24843-2	EP-85	T	Water	SM 2320B	
560-24843-3	EP-81	T	Water	SM 2320B	
560-24843-4	OBS-1	T	Water	SM 2320B	
560-24843-5	EP-122	T	Water	SM 2320B	
560-24843-6	EP-119	T	Water	SM 2320B	
560-24843-7	EP-62	T	Water	SM 2320B	
560-24843-8	EP-135	T	Water	SM 2320B	
560-24843-9	EP-4	T	Water	SM 2320B	
560-24843-10	EP-6	T	Water	SM 2320B	
560-24843-11	EP-7	T	Water	SM 2320B	
560-24843-12	EP-133	T	Water	SM 2320B	
560-24843-12MS	Matrix Spike	T	Water	SM 2320B	
560-24843-12MSD	Matrix Spike Duplicate	T	Water	SM 2320B	
560-24843-13FD	FD030711	T	Water	SM 2320B	
560-24843-14	FD030711-2	T	Water	SM 2320B	
<b>Analysis Batch:560-57625</b>					
LCS 560-57625/5	Lab Control Sample	T	Water	300.0	
MB 560-57625/4	Method Blank	T	Water	300.0	
560-24843-2	EP-85	T	Water	300.0	
560-24843-2MS	Matrix Spike	T	Water	300.0	
560-24843-2MSD	Matrix Spike Duplicate	T	Water	300.0	
560-24843-3	EP-81	T	Water	300.0	
560-24843-4	OBS-1	T	Water	300.0	
560-24843-5	EP-122	T	Water	300.0	
560-24843-6	EP-119	T	Water	300.0	
560-24843-7	EP-62	T	Water	300.0	
560-24843-8	EP-135	T	Water	300.0	
560-24843-9	EP-4	T	Water	300.0	
560-24843-10	EP-6	T	Water	300.0	
560-24843-11	EP-7	T	Water	300.0	

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Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>General Chemistry</b>					
<b>Analysis Batch:560-57650</b>					
LCS 560-57650/4	Lab Control Sample	T	Water	415.1	
MB 560-57650/3	Method Blank	T	Water	415.1	
560-24843-1	ER030711	T	Water	415.1	
560-24843-2	EP-85	T	Water	415.1	
560-24843-3	EP-81	T	Water	415.1	
560-24843-4	OBS-1	T	Water	415.1	
560-24843-5	EP-122	T	Water	415.1	
560-24843-6	EP-119	T	Water	415.1	
560-24843-7	EP-62	T	Water	415.1	
560-24843-8	EP-135	T	Water	415.1	
560-24843-9	EP-4	T	Water	415.1	
560-24843-10	EP-6	T	Water	415.1	
560-24843-11	EP-7	T	Water	415.1	
560-24843-12	EP-133	T	Water	415.1	
560-24843-13FD	FD030711	T	Water	415.1	
560-24843-14	FD030711-2	T	Water	415.1	
<b>Analysis Batch:560-57693</b>					
LCS 560-57693/14	Lab Control Sample	T	Water	300.0	
MB 560-57693/13	Method Blank	T	Water	300.0	
560-24843-12	EP-133	T	Water	300.0	
560-24843-13FD	FD030711	T	Water	300.0	
560-24843-14	FD030711-2	T	Water	300.0	

#### Report Basis

T = Total