

# APPENDIX 1

## SPoT STATION INFORMATION

**Table 1**  
SPoT 2008 Station Information

Station Code	Station Name	Sample Date	Latitude	Longitude	Coordination
103SMHSAR	Smith River at Sarina Road	15/Oct/2008	41.91357	-124.17160	None Specified
105KLAMKK	Klamath River at Kamp Klamath	15/Oct/2008	41.51695	-124.03893	YTEP
109MAD101	Mad River upstream Hwy 101	15/Oct/2008	40.91770	-124.08811	None Specified
111EELFRN	Eel River at Fernbridge	15/Oct/2008	40.61213	-124.20457	None Specified
111EELMYR	S Fork Eel River at Meyers Flat	14/Oct/2008	40.26266	-123.87965	None Specified
113NAVDMC	N Fork Navarro River at Dimmick campground	14/Oct/2008	39.15703	-123.63474	None Specified
114LAGMIR	Laguna de Santa Rosa at Mirabel	14/Oct/2008	38.49385	-122.89214	None Specified
114RRAXRV	Russian River at Alexander RV Park	14/Oct/2008	38.65888	-122.83305	None Specified
114RRDSDM	Russian River downstream Duncan Mills	14/Oct/2008	38.44797	-123.05640	None Specified
201LAG125	Lagunitas Creek at Coast Guard Station	13/Aug/2008	38.07038	-122.79876	Reg Bd
201WLK160	Walker Creek at WC Ranch	18/Jun/2008	38.17584	-122.81949	Reg Bd
204ALA020	Alameda Creek E. of Alvarado Blvd	17/Jun/2008	37.58049	-122.05260	R2 MRP
204SLE030	San Leandro Creek at Empire Road	17/Jun/2008	37.72838	-122.18818	R2 MRP
204SMA020	San Mateo Creek at Gateway Park	18/Jun/2008	37.56951	-122.31669	R2 MRP
205COY060	Coyote Creek at Montague	17/Jun/2008	37.39601	-121.91512	R2 MRP
205GUA020	Guadalupe Creek at USGS Gaging Station	17/Jun/2008	37.37553	-121.93266	R2 MRP
207KIR020	Kirker Creek at Floodway	17/Jun/2008	38.01658	-121.83883	R2 MRP
207LAU020	Laurel Creek at Pintail Drive	17/Jun/2008	38.24836	-122.00650	R2 MRP
207WAL020	Walnut Creek at Concord Ave O.C.	17/Jun/2008	37.98082	-122.05154	R2 MRP
304SOKxxx	Soquel Creek at Knob Hill	21/Jul/2008	36.97930	-121.95690	Reg Bd
305THUxxx	Pajaro River at Thurwachter Bridge	21/Jul/2008	36.87917	-121.79364	Reg Bd
307CMLxxx	Carmel River at Hwy 1	17/Jun/2008	36.53561	-121.91145	Reg Bd
309DAVxxx	Salinas River at Davis Road	17/Jun/2008	36.64606	-121.70135	R3 CMP
309TDWxxx	Tembladero Slough at Monterey Dunes Way	21/Jul/2008	36.77142	-121.78652	R3 CMP
310ARGxxx	Arroyo Grande Creek at 22nd Street	11/Jun/2008	35.09517	-120.61145	Reg Bd
310SLBxxx	San Luis Obispo Creek at San Luis Bay Drive	11/Jun/2008	35.18826	-120.71879	Reg Bd
312SMAxxx	Santa Maria River at Estuary	11/Jun/2008	34.96145	-120.64115	R3 CMP
313SAlxxx	San Antonio Creek at San Antonio Rd West	10/Jun/2008	34.78239	-120.53015	Reg Bd
315ATAxxx	Atascadero Creek at Ward Dr	22/May/2008	34.42354	-119.81846	Reg Bd
315MISxxx	Mission Creek at Montecito St	10/Jun/2008	34.41376	-119.69544	Reg Bd



Station Code	Station Name	Sample Date	Latitude	Longitude	Coordination
402VRB0xx	Ventura River at Hwy 101 Campground	19/May/2008	34.28270	-119.30864	SMC
403STCBQU	Santa Clara River at Bouquet Creek	19/May/2008	34.42403	-118.53811	None Specified
403STCEST	Santa Clara River at Estuary	19/May/2008	34.23597	-119.21704	None Specified
403STCSP	Sespe Creek at Hwy 126	22/May/2008	34.39312	-118.94227	None Specified
404BLNaxx	Ballona Creek at Sawtelle	20/May/2008	33.98659	-118.41575	SMC
405SGRA2x	San Gabriel River RA-2	20/May/2008	33.79036	-118.09195	SMC
408CAL006	Calleguas Creek At Hwy 1	19/May/2008	34.16538	-119.06118	SMC
504BCHROS	Big Chico Creek at Rose Ave	30/Jun/2008	39.72704	-121.86348	Regional
504SACHMN	Sacramento River at Hamilton City	30/Jun/2008	39.75071	-121.99632	Regional
508SACBLF	Sacramento River at Balls Ferry	30/Jun/2008	40.41690	-122.19377	Regional
510LSAC08	Sacramento River at Hood	16/Jul/2008	38.38330	-121.51926	Regional
511CAC113	Cache Creek at Hwy 113	20/Aug/2008	38.72078	-121.76482	Regional
515SACKNK	Sacramento Slough at Karnak	16/Jul/2008	38.78443	-121.65344	Regional
515YBAMVL	Yuba River at Maryville	19/Aug/2008	39.13393	-121.59273	Regional
519AMNDVY	American River at Discovery Park	16/Jul/2008	38.59910	-121.50709	Regional
519BERBRY	Bear River at Berry Road	19/Aug/2008	38.95440	-121.55126	Regional
519FTRNCS	Feather River at Nicolaus	19/Aug/2008	38.89898	-121.58805	Regional
520BUTEMR	Butte Slough at Meridian	19/Aug/2008	39.17024	-121.90069	Regional
520CBDKLD	Colusa Basin Drain at Knights Landing	20/Aug/2008	38.80077	-121.72352	Regional
520SACLSA	Sacramento River at Colusa	19/Aug/2008	39.21457	-122.00016	Regional
526P00008	Pit River at Pittville Bridge	30/Jun/2008	41.04513	-121.33258	Reg Bd
531SAC001	Cosumnes River at Twin Cities Road	22/Jul/2008	38.29075	-121.37574	Reg Bd
532CAL004	Mokelumne River at Hwy 49	22/Jul/2008	38.31222	-120.72120	None Specified
535MER007	Bear Creek near Bert Crane Road	23/Jul/2008	37.25620	-120.65187	R5 ILP
535MER546	Merced River at River Road	23/Jul/2008	37.35024	-120.96220	R5 ILP
535STC206	Dry Creek at La Loma Road	22/Jul/2008	37.64395	-120.98420	R5 ILP
535STC210	Tuolumne River at Old LaGrange Bridge	22/Jul/2008	37.66599	-120.46205	Regional
535STC504	San Joaquin River at Crows Landing	16/Jul/2008	37.43324	-121.01756	Reg Bd
Station Code	Station Name	Sample Date	Latitude	Longitude	Coordination
541MER522	San Joaquin River at Lander Avenue	16/Jul/2008	37.29522	-120.85146	R5 ILP
541MER531	Salt Slough at Lander Avenue	23/Jul/2008	37.24764	-120.85235	R5 ILP
541MER542	Mud Slough downstream of San Luis Drain	23/Jul/2008	37.26333	-120.90613	Reg Bd
541SJC501	San Joaquin River at Airport Way	16/Jul/2008	37.67573	-121.26509	Reg Bd
541STC019	Orestimba Creek at River Road	22/Jul/2008	37.41402	-121.01556	R5 ILP
551LKI040	S Fork Kings River	29/Apr/2008	36.25619	-119.85482	Reg Bd
554SKR010	S Fork Kern River at Fay Ranch Road	28/Apr/2008	35.67262	-118.28982	None Specified
558CCR010	Cross Creek at Road 60 and Hwy 99	29/Apr/2008	36.40368	-119.45497	Reg Bd
558PKC010	Packwood Creek at Road 68	29/Apr/2008	36.26852	-119.41846	Reg Bd
558TUR090	Tule River at Road 64	29/Apr/2008	36.08777	-119.42645	Reg Bd
603BSP002	Bishop Creek at East Line St	17/Sep/2008	37.36234	-118.38637	None Specified



Station Code	Station Name	Sample Date	Latitude	Longitude	Coordination
603LOWSED	Lower Owens River near mouth	17/Sep/2008	36.55967	-117.99298	None Specified
631WWK008	West Walker River at Topaz	23/Sep/2008	38.54677	-119.49496	Reg Bd
633WCRSED	West Fork Carson River at Paynesville	22/Sep/2008	38.80883	-119.77720	None Specified
634UTRSED	Upper Truckee River near inlet to Lake Tahoe	22/Sep/2008	38.93439	-120.00034	Other
635MARSED	Martis Creek near mouth	22/Sep/2008	39.30185	-120.12118	None Specified
635TRKSED	Lower Truckee River near CA/NV state line	22/Sep/2008	39.42285	-120.03366	None Specified
635TROSED	Trout Creek (Truckee) near mouth	22/Sep/2008	39.33049	-120.16854	None Specified
637SUS001	Susan River near Litchfield	22/Sep/2008	40.37743	-120.39532	Reg Bd
719CVSCOT	Coachella Valley Stormwater Channel Outlet	29/Oct/2008	33.52430	-116.07836	Reg Bd
723ARGB1	Alamo River Outlet	28/Oct/2008	33.19896	-115.59727	Reg Bd
723NROTWM	New River Outlet	28/Oct/2008	33.10460	-115.66475	Reg Bd
801SARVRx	Santa Ana River at River Road	04/Jun/2008	33.92379	-117.59770	SMC
801SDCxxx	San Diego Creek at Campus	20/May/2008	33.65641	-117.84519	SMC
802SJCREf	San Jacinto River - Reference Site	04/Jun/2008	33.73648	-116.82622	USGS NAWQA
802SJRGxx	San Jacinto River at Goetz/TMDL site	03/Jun/2008	33.75159	-117.22351	SMC
845SGRDRE	Tributary channel to San Gabriel River	20/May/2008	33.77352	-118.09769	SMC
901SJSJC9	San Juan Creek 9 at Mariner Drive	21/May/2008	33.48157	-117.67761	None Specified
902SSMR07	Santa Margarita at Basilone Road	21/May/2008	33.31108	-117.34616	None Specified
904CBAHC6	Agua Hedionda Creek at El Camino Real	21/May/2008	33.14992	-117.29649	None Specified
904ESCOxx	Escondido Creek at Camino del Norte	21/May/2008	33.04799	-117.22643	SMC
906LPSOL4	Los Penasquitos Creek 6 at Hwy 5	21/May/2008	32.90244	-117.22529	None Specified
907SDFRC2	Forrester Creek 2 at Carlton Hills Blvd	21/May/2008	32.83940	-116.99782	None Specified
911TJHRxx	Tijuana River at Hollister Rd	22/May/2008	32.55114	-117.08411	SMC

#### Program Coordination Codes

R2 MRP	Region 2 Municipal Regional Permit Monitoring
R3 CMP	Region 3 Cooperative Monitoring Program
R5 ILP	Region 5 Irrigated Lands Program
Reg Bd	SWAMP Monitoring by Regional Board
Regional	Independent Regional Monitoring Programs
SMC	Stormwater Monitoring Coalition
USGS NAWQA	USGS National Water Quality Assessment Program
YTEP	Yurok Tribe Environmental Program



# APPENDIX 2

## MAPS OF SITE LOCATIONS BY STATION CODE



Map 1. Northern California Sites for Regions 1, 5, and 6.





Map 2. North Coast Region - Southern Sites

February 2012



[www.waterboards.ca.gov/swamp](http://www.waterboards.ca.gov/swamp)



Map 3. San Francisco Bay Region

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Map 4. Central Coast Region

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Map 5. Los Angeles and Santa Ana Regions





Map 6. Central Valley Region – Northern



Map 7. Central Valley Region – San Joaquin Basin





Map 8. Central Valley Region – Tulare Basin

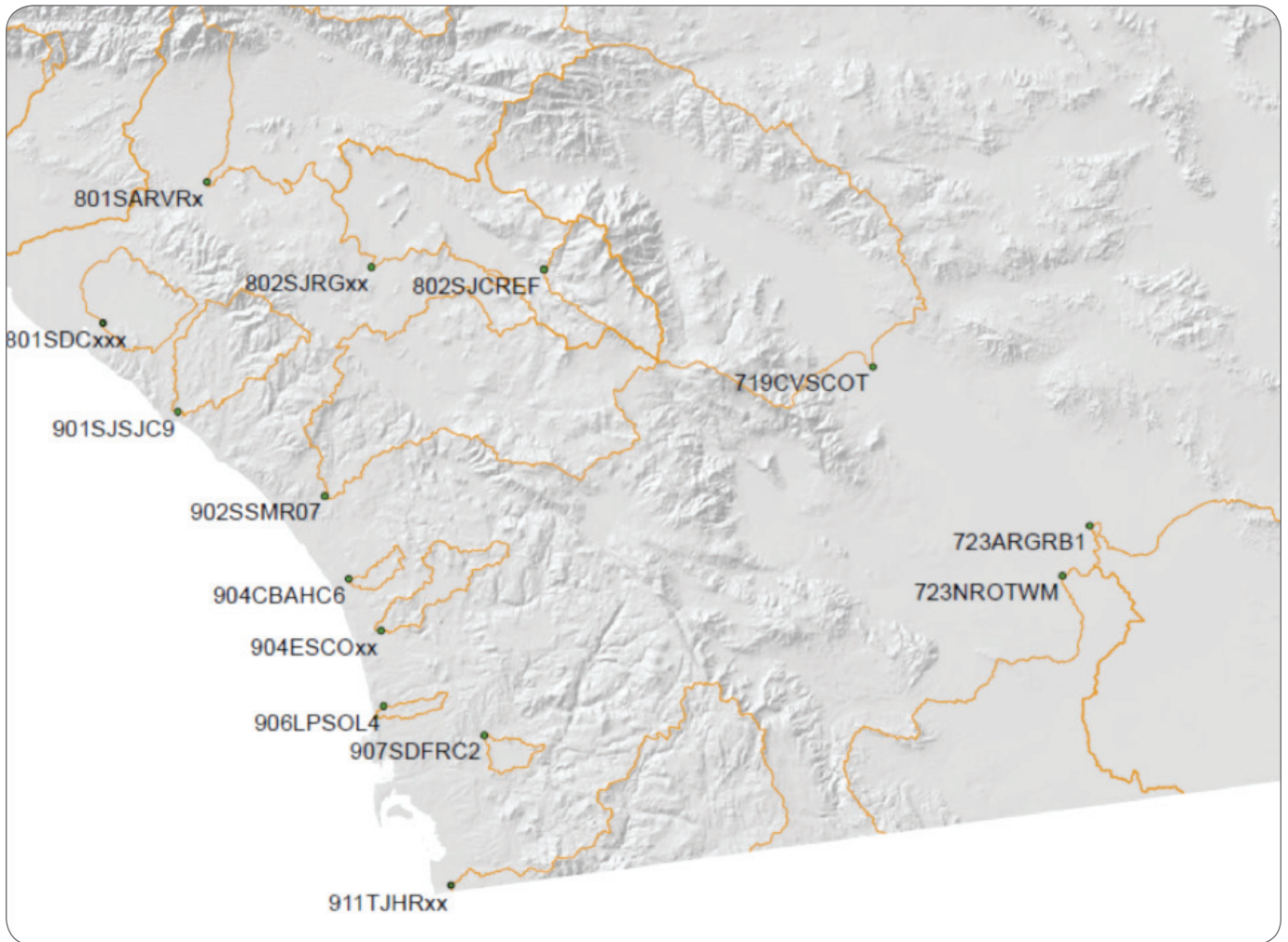


Map 9. Lahontan Region – Southern

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Map 10. San Diego and Colorado River Regions

# APPENDIX 3

## QUALITY ASSURANCE INFORMATION

### NARRATIVE DESCRIPTION: QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) DOCUMENTATION

All data for this report were produced in accordance with the SWAMP Statewide Stream Pollution Trends Monitoring Program Quality Assurance Project Plan, found at the following web address: [http://www.swrcb.ca.gov/water\\_issues/programs/swamp/qapp/qapp\\_spot\\_strms\\_pollute\\_final.pdf](http://www.swrcb.ca.gov/water_issues/programs/swamp/qapp/qapp_spot_strms_pollute_final.pdf)

The data for the Statewide Stream Pollution Trend (SPoT) 2008 report were evaluated to determine document data quality relative to SWAMP data quality objectives. Thorough objectives for achieving quality data are outlined in the SWAMP Quality Assurance Management Plan (QAMP). In general, data quality is demonstrated through analysis of the following Data Quality Indicators:

- Laboratory method blanks
- Surrogate spikes
- Matrix spikes and matrix spike duplicates
- Certified reference materials/laboratory control spikes
- Laboratory duplicates
- Field duplicates

#### Data Usability Criteria

Data were considered acceptable for use in this assessment if they were produced in accordance with the SWAMP Statewide Stream Pollution Trends Monitoring Program Quality Assurance Project Plan (QAPP). The QAPP describes methods and establishes data acceptability criteria for the participating laboratories. Data meeting these criteria were of sufficient quality for use in the California Integrated Report, which satisfies Clean Water Act section 303[d] for listing of impaired water bodies and section 305[b] for surface water quality condition assessment. Sample with results not meeting laboratory QA criteria were re-analyzed, and all scheduled analyses were successfully completed, with the exception of PAH analyses on a subset of samples. Those data were rejected and are not included in this report.

#### Verification

Data for Project ID SWB\_SPoT\_2008 have been verified according to SWAMP Standard Operating Procedures (SOPs) for chemistry and toxicity data verification. The data verification process determines whether the data are compliant with the individual measurement quality objectives



(MQOs) specified in the SWAMP QAMP. ). The counts in the following sections represent metal, Mercury, Total Phosphorus as P, Total Organic Carbon, Grain Size, Organochlorine pesticide, Organophosphorus pesticide, Pyrethroid pesticide, Polybrominated Diphenyl Ether, Polychlorinated Biphenyl as Congener (PCB) and Aroclor and Hyalella Azteca results from 2008 survey of the Statewide Stream Pollution Trend Study (SPoT). Data were classified into one of the following classification levels:

### Compliant

Data classified as “compliant” meet or exceed all of the MQOs and other data quality requirements specified in the SWAMP QAMP. These data are considered usable for their intended purpose without additional scrutiny.

### Qualified

Data classified as “qualified” do not meet one or more of the MQOs and other data quality requirements specified in the SWAMP QAMP. These data are considered usable for its intended purpose following an additional assessment to determine the scope and impact of the quality control failure.

### Rejected

Data classified as “rejected” do not meet the minimum data quality requirements specified in the SWAMP QAMP. These data are not considered usable for its intended purpose.

### Not applicable

Data classified as “not applicable” refers to data that were not verified since there were no project MQOs or QC requirements for the specific parameter, or a failure result was reported and could not be verified.

No data have been validated. This section does not attempt to determine whether or not data should be used. Decisions regarding data use can only be made after data validation and comparison to project-specific data quality objectives (DQOs) is performed.

SWAMP criteria for percent recovery (%R) of surrogates, matrix spikes, and Certified Reference Materials and relative percent difference (RPD) for field and laboratory duplicates for sediments are presented in Appendix X, Table 1.

## 3.1 LABORATORY METHOD BLANKS

Laboratory method blanks are used to evaluate laboratory contamination during sample preparation and analysis. Blank samples undergo the same analytical procedure as samples with at least one blank analyzed per 20 samples. The required frequency was met for all 95 batches.

Acceptable data are those with values less than the method detection limit (MDL) for that particular analyte. All laboratory method blanks were acceptable with the exception of 8 blanks in which concentrations of



target analytes were above the MDL but less than the reporting limit (RL) (Appendix X, Table 2). These data were classified as compliant with regard to the SWAMP QAMP MQO for laboratory blanks.

### 3.2 SURROGATE SPIKES

Surrogate spikes are used to assess analyte losses during sample extraction and clean-up procedures, and must be added to every field and quality control sample prior to extraction. Whenever possible, isotopically-labeled analogs of the analytes should be used.

All field samples and QC were spiked with surrogates as required with the exception of batch WPCL-L-024-09\_S\_PYD-PYN for pyrethroid pesticides. Surrogate Dibromocotafluorophenyl was not added to the samples or associated laboratory QA/QC samples. All associated analytes in the field samples and laboratory QA/QC samples were classified as qualified with regard to the SWAMP QAMP MQO for surrogates (Appendix X Table 3).

All surrogate percent recoveries were within the acceptance criteria listed in Appendix X, Table 1, with the exception of surrogates spiked in samples analyzed for Polynuclear Aromatic Hydrocarbons, Polybrominated Diphenyl Ethers and Organochlorine Pesticides (Appendix X, Table 4). The associated analytes in these samples were classified as qualified with regard to the SWAMP QAMP MQO for surrogates.

### 3.3 MATRIX SPIKES AND MATRIX SPIKE DUPLICATES

A laboratory-fortified sample matrix (matrix spike, or MS) and a laboratory fortified sample matrix duplicate (MSD) are both used to evaluate the effect of the sample matrix on the recovery of the target analyte(s). Individually, these samples are used to assess the bias from an environmental sample matrix plus normal method performance. In addition, these duplicate samples can be used collectively to assess analytical precision.

Aliquots of randomly selected field samples were spiked with known amounts of target analytes. The %R of each spike was calculated as follows:

$$\%R = (MS \text{ Result} - \text{Sample Result}) / (\text{Expected Value} - \text{Sample Result}) * 100$$

The %R acceptance criteria vary according to analyte groups (Appendix X, Table1).

This process was repeated on the same native samples to create a laboratory fortified sample matrix spike duplicate (MSD). MSDs were used to assess laboratory precision and accuracy. MS/MSD RPDs were calculated as:





$$RPD = ((\text{Value1}-\text{Value2})/(\text{AVERAGE}(\text{Value1}+\text{Value2}))) * 100$$

where:

Value1=matrix spike value

Value2=matrix spike duplicate value.

According to the SWAMP QAMP for conventional, organic and inorganic analyses, at least one MS/MSD pair should be performed per 20 samples or one per batch, whichever is more frequent. One percent of the batches (one out of 84 total batches) for Total Phosphorus as P did not include MS/MSDs performed at the required frequency. This batch was classified as qualified (Appendix X, Table 5).

Laboratory batches with MS/MSD %R and RPD values outside of acceptance criteria were either classified as compliant or qualified based on number of QC elements outside criteria. These are presented in Appendix X, Table 6. All other MS/MSD %Rs and RPDs were within acceptance criteria.

### 3.4 CERTIFIED REFERENCE MATERIALS AND LABORATORY CONTROL SAMPLES

Certified reference materials (CRMs) and laboratory control samples (LCSs) are analyzed to assess the accuracy of a given analytical method. As required by the SWAMP QAMP, one CRM or LCS should be analyzed per 20 samples or one per batch, whichever is more frequent. All batches met the frequency with the exception of batch WPCL\_L-499-08\_BS534\_S\_PCB. Per the laboratory a tissue CRM was mistakenly analyzed with the sediments. This batch was classified as qualified (Appendix X, Table 7).

Laboratory batches with CRM or LCS %R or RPD values outside of acceptance criteria were either classified as compliant or qualified based on number of QC elements outside criteria. These are presented in Appendix X, Table 8. All other CRM and LCS %Rs and RPDs were within acceptance criteria.

### 3.5 LABORATORY DUPLICATES

Laboratory duplicates (DUPs) were analyzed to assess laboratory precision. As required by the SWAMP QAMP a duplicate of at least one field sample per batch was processed and analyzed. Ten percent of the batches (8 out of 84 total batches) did not include DUPs performed at the required frequency. These 8 Total Phosphorus as P batches were classified as qualified (Appendix X, Table 9).

The duplicates were compared and an RPD was calculated as described in Section 3.3. RPDs < 25 % were considered acceptable as specified in the QAMP. All RPDs > 25 % were classified as qualified and are presented in Appendix X, Table 10.



### 3.6 FIELD DUPLICATES

Field duplicates are analyzed to assess field homogeneity and field sampling procedures. Field duplicates were sampled at stations 205COY060 and 504BCHROS in June 2008, station 515YBAMVL in August 2008, station 723NROTWM in April 2008 and stations 845SGRDRE and 907SDFRC2 in May 2008. Sediment duplicates were obtained from homogenized field samples.

Field duplicate values were compared to field sample values from each site and RPDs were calculated as described in Section 3.3. RPDs < 25% were considered acceptable as specified in the QAMP. RPDs > 25% are presented in Appendix X, Table 11. All other RPDs were acceptable.

### 3.7 TOXICITY TESTS

All *Hyaella Azteca* data were classified as compliant with regard to the SWAMP QAMP MQO for toxicity tests.

### 3.8 HOLDING TIMES

Four percent of the results (1045 out of 28066 total results) in 3968 samples (sample per method) were classified as qualified due to holding time exceedances. These results consisted of metals, TOC, grain size, organochlorine pesticides, PCBs, and PAHs. Sediment metal samples exceeded the 1-year holding time criteria until analysis. Sediment TOC and grain size exceeded the 28 day holding time criteria until analysis. Sediment organic samples exceeded the 1-year holding time criteria until extraction. Although data were classified qualified it was considered usable for the intended purposes and for this report.

Some sediment samples analyzed for *Hyaella Azteca* were outside the recommended 14 day holding time criteria, however they met the 3 week holding time criteria and were classified compliant with regard to the SWAMP QAMP MQO.

### 3.9 QA/QC SUMMARY

There were 28,345 sample results, including; field observations, integrated samples, and field duplicates and laboratory QA/QC samples. Of these:

- 21,895 (77%) were classified as “compliant”
- 6170 (22%) were classified as “qualified”
- 0 (0%) were classified as “rejected”; and
- 280 (1%) were classified as “NA”, since the field observation results were not verified and one result was not reported by the laboratory and could not be verified.



Classification of this dataset is summarized as follows:

- All data presented in Table 2 were classified as SWAMP-compliant since the analytes detected in the laboratory blanks met the QAMP criteria of less than the RL for laboratory blank contamination.
- All data presented in Tables 3, 5, 7, and 9 was classified as qualified due to insufficient QC samples performed.
- All data presented in Table 4 were classified as qualified due to surrogate recovery exceedances.
- All data presented in Tables 6, 10, and 11 were classified as qualified due to RPD exceedances.
- All data presented in Table 8 were classified as either compliant or qualified due to recovery exceedances.
- 1,045 results for samples presented in Table 12 were classified as qualified due to holding time exceedances.
- 1,058 screening level results (PAH analytes that could not be quantified or PCB aroclors) were classified as qualified.

Data that meet all SWAMP MQOs as specified in the QAMP are classified as “SWAMP-compliant” and considered usable without further evaluation. Data that fail to meet all program MQOs specified in the SWAMP QAMP, have analytes not covered in the SWAMP QAMP, or are insufficiently documented such that supplementary information is required for them to be used in reports are classified as “qualified” non-compliant with the SWAMP QAMP. No data were classified as rejected for this project. During the Data Quality Assessment (DQA) phase of reporting, end users may find qualified data batches meet project data quality objectives. A 100% completeness level was attained which met the 90% project completeness goal specified in the SWAMP QAMP.

#### 4.0 DETECTION AND REPORTING LIMITS

Minimum detection limits and reporting limits for all analytes measured are shown in Table 14.



**Table 1**  
Percent recovery (%R) and relative percent difference (RPD) acceptance criteria  
for different categories of analytes in water and sediment

Analyte Category	% Surrogate Recovery Acceptance Criteria	% MS/MSD Recovery Acceptance Criteria	% CRM & LCS Acceptance Criteria	RPD Criteria (MS/MSD, Laboratory Duplicate, Field Duplicate)
Conventional Constituents	NA	80-120	80-120	25
Trace Metals (Including Mercury)	NA	75-125	75-125	25
Organics (PCBs, OCHs, OPs)	50-150	50-150	50-150	25





**Table 2**  
Laboratory method blanks in which analytes were detected.

Analyte	Result	MDL	RL	Detected	Analysis Date	Method Name	Laboratory	Batch ID
Dieldrin, Total ng/g dw	0.666	0.418	0.836	DNQ	1/8/2010	EPA 8081BM	DFG-WPCL	WPCL_L-024-717-09_BS569_S_OCH
Dieldrin, Total ng/g dw	0.756	0.687	0.800	DNQ	8/17/2009	EPA 8081BM	DFG-WPCL	WPCL_L-024-09_BS558_S_OCH
Methoxychlor, Total ng/g dw	0.297	0.262	1.80	DNQ	8/17/2009	EPA 8081BM	DFG-WPCL	WPCL_L-024-09_BS557_S_OCH
	0.482	0.220	1.51	DNQ	6/17/2009	EPA 8081BM	DFG-WPCL	WPCL_L-499-08_BS534_S_OCH
	0.635	0.281	5.78	DNQ	11/5/2008	EPA 8081BM	DFG-WPCL	WPCL_L-326-415-08_BS526_S_OCH
	0.635	0.204	4.19	DNQ	10/23/2008	EPA 8081BM	DFG-WPCL	WPCL_L-326-08_BS525_S_OCH
	1.19	0.232	1.59	DNQ	8/17/2009	EPA 8081BM	DFG-WPCL	WPCL_L-024-09_BS558_S_OCH
PCB 070, Total ng/g dw	0.222	0.181	0.362	DNQ	10/30/2008	EPA 8082M	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 087, Total ng/g dw	0.110	0.106	0.212	DNQ	10/30/2008	EPA 8082M	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 095, Total ng/g dw	0.228	0.153	0.306	DNQ	10/30/2008	EPA 8082M	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 101, Total ng/g dw	0.209	0.173	0.347	DNQ	10/30/2008	EPA 8082M	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 110, Total ng/g dw	0.298	0.237	0.474	DNQ	10/30/2008	EPA 8082M	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB AROCLOR 1254, Total ng/g dw	3.00	2.92	14.6	DNQ	6/13/2009	Newman, et al., 1988	DFG-WPCL	WPCL_L-499-08_BS535_S_PCB
	3.00	2.79	14.0	DNQ	10/30/2008	Newman, et al., 1988	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB

**Table 3**  
Batches for which surrogates were not spiked in the samples.

Surrogate	Batch ID	Notes	Laboratory
Dibromooctafluorobiphenyl (Surrogate), Total %	WPCL_L-024-09_S_PYD-PYN	Surrogate was not added to the samples	DFG-WPCL



**Table 4**  
Surrogate recoveries that did meet quality control acceptance criteria.

Surrogate	Station Code	Batch ID	% Recovery	Laboratory
Benz(a)anthracene-d12(Surrogate),Total %	515YBAMVL	WPCL_L-024-226-09_BS559_S_PAH	156	DFG-WPCL
DDD(p,p')(Surrogate),Total %	634UTRSED	WPCL_L-024-09_BS557_S_PBDE	47.5	DFG-WPCL
	LABQA	WPCL_L-024-09_BS557_S_PBDE	48.3	DFG-WPCL
	LABQA	WPCL_L-024-09_BS557_S_OCH	47.2	DFG-WPCL
Naphthalene-d8(Surrogate),Total %	LABQA	WPCL_L-326-415-08_BS547_S_PAH	44.8	DFG-WPCL
Benzo(g,h,i)perylene-d12(Surrogate),Total %	LABQA	WPCL_L-024-226-09_BS559_S_PAH	40.9	DFG-WPCL
DBCE(Surrogate),Total %	LABQA	WPCL_L-024-09_BS558_S_OCH	38.9	DFG-WPCL
Perylene-d12(Surrogate),Total %	LABQA	WPCL_L-326-415-08_BS547_S_PAH	38.7	DFG-WPCL
DBCE(Surrogate),Total %	LABQA	WPCL_L-326-08_BS525_S_OCH	0	DFG-WPCL
	LABQA	WPCL_L-415-455-08_BS527_S_OCH	0	DFG-WPCL
	LABQA	WPCL_L-326-415-08_BS526_S_OCH	0	DFG-WPCL

**Table 5**  
Batches for which surrogates were not spiked in the samples.

Analyte	Batch ID	Notes	Laboratory
Phosphorus as P,Total mg/Kg dw	CLS_4066_S_TPHOS	No MS/MSD performed.	CLS

**Table 6**  
Matrix spikes (MS), matrix spike duplicates (MSD), percent recoveries (%R), and relative percent differences (RPD) that did not meet quality control acceptance criteria. Boldface type indicates values that did not meet the quality control objective.

Analyte	Station Code	Sample Date	Lab Batch ID	MS %R	MSD %R	RPD	Laboratory
Aldrin, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	67.2	104	<b>44</b>	DFG-WPCL
	904CBAHC6	5/21/2008	WPCL_L-326-415-08_BS526_S_OCH	<b>262</b>	<b>276</b>	5	DFG-WPCL
Benzo(k)fluoranthene, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS536_S_PAH	111	69.8	<b>43</b>	DFG-WPCL
Bifenthrin, Total ng/g dw	111EELMYR	10/14/2008	WPCL_L-024-09_S_PYD-PYN	129	76.7	<b>51</b>	DFG-WPCL
Chlordane, trans-, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	66.5	111	<b>49</b>	DFG-WPCL
	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	65.4	105	<b>43</b>	DFG-WPCL
Chlorpyrifos, Total ng/g dw	304SOKxxx	7/21/2008	WPCL_L-499-08_S_OP	66.7	88.6	<b>28</b>	DFG-WPCL
Cyfluthrin, total, Total ng/g dw	111EELMYR	10/14/2008	WPCL_L-024-09_S_PYD-PYN	99.2	75.5	<b>27</b>	DFG-WPCL
Cypermethrin, Total ng/g dw	111EELMYR	10/14/2008	WPCL_L-024-09_S_PYD-PYN	88.9	68.7	<b>26</b>	DFG-WPCL
DDD(o,p'), Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	60.4	91.5	<b>42</b>	DFG-WPCL
	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_OCH	<b>166</b>	<b>209</b>	12	DFG-WPCL
	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	91.7	<b>35</b>	<b>35</b>	DFG-WPCL
DDE(o,p'), Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	60.7	96.5	<b>47</b>	DFG-WPCL
	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_OCH	123	<b>197</b>	16	DFG-WPCL
DDMU(p,p'), Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	64.8	99.7	<b>44</b>	DFG-WPCL
DDT(o,p'), Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	58.3	90.1	<b>44</b>	DFG-WPCL
	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_OCH	103	<b>166</b>	<b>29</b>	DFG-WPCL
	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	58.1	89.5	<b>38</b>	DFG-WPCL
Deltamethrin, Total ng/g dw	111EELMYR	10/14/2008	WPCL_L-024-09_S_PYD-PYN	88.7	66.7	<b>28</b>	DFG-WPCL
	520BUTEMR	8/19/2008	WPCL_L-024-09_S_PYD-PYN	102	78.3	<b>26</b>	DFG-WPCL



Analyte	Station Code	Sample Date	Lab Batch ID	MS %R	MSD %R	RPD	Laboratory
Dieldrin, Total ng/g dw	109MAD101	10/15/2008	WPCL_L-024-09_BS558_S_OCH	<b>46.9</b>	78.1	<b>39</b>	DFG-WPCL
Endosulfan I, Total ng/g dw	109MAD101	10/15/2008	WPCL_L-024-09_BS558_S_OCH	0	0	0	DFG-WPCL
	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_OCH	<b>16.4</b>	63.1	<b>120</b>	DFG-WPCL
Endrin, Total ng/g dw	109MAD101	10/15/2008	WPCL_L-024-09_BS558_S_OCH	<b>11.3</b>	<b>17.6</b>	<b>44</b>	DFG-WPCL
	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_OCH	<b>45.9</b>	63.5	<b>30</b>	DFG-WPCL
Fenpropathrin, Total ng/g dw	111EELMYR	10/14/2008	WPCL_L-024-09_S_PYD-PYN	73.4	50.7	<b>37</b>	DFG-WPCL
	541MER522	7/16/2008	WPCL_L-499-08_S_PYD-PYN	61.2	81.8	<b>29</b>	DFG-WPCL
Fluoranthene, Total ng/g dw	515YBAMVL	8/19/2008	WPCL_L-024-226-09_BS559_S_PAH	101	<b>153</b>	13	DFG-WPCL
Fonofos, Total ng/g dw	304SOKxxx	7/21/2008	WPCL_L-499-08_S_OP	102	74.6	<b>32</b>	DFG-WPCL
HCH, alpha, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	60.7	91	<b>42</b>	DFG-WPCL
HCH, beta, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	66.2	97.1	<b>40</b>	DFG-WPCL
HCH, gamma, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	64	93.5	<b>40</b>	DFG-WPCL
Heptachlor epoxide, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	67.6	94.9	<b>35</b>	DFG-WPCL
Heptachlor, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	56.4	90.4	<b>47</b>	DFG-WPCL
Hexachlorobenzene, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	<b>48.1</b>	77.7	<b>29</b>	DFG-WPCL
Lead, Total mg/Kg dw	541MER542	7/23/2008	MPSL-DFG_2009Dig11_S_TM	76.6	<b>73.8</b>	3	MPSL-DFG
Methoxychlor, Total ng/g dw	109MAD101	10/15/2008	WPCL_L-024-09_BS558_S_OCH	<b>151</b>	<b>158</b>	4	DFG-WPCL
	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	67.2	101	<b>42</b>	DFG-WPCL
	904CBAHC6	5/21/2008	WPCL_L-326-415-08_BS526_S_OCH	<b>42.5</b>	<b>39.4</b>	8	DFG-WPCL
Methylfluoranthene, 2-, Total ng/g dw	906LPSOL4	5/21/2008	WPCL_L-326-415-08_BS547_S_PAH	<b>154</b>	150	5	DFG-WPCL
Mirex, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	64.2	93	<b>39</b>	DFG-WPCL
Nonachlor, cis-, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	66.9	108	<b>49</b>	DFG-WPCL
Nonachlor, trans, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	65	99.6	<b>43</b>	DFG-WPCL
Oxychlorthane, Total ng/g dw	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_OCH	68.4	95.7	<b>35</b>	DFG-WPCL



Analyte	Station Code	Sample Date	Lab Batch ID	MS %R	MSD %R	RPD	Laboratory
Parathion, Methyl, Total ng/g dw	304SOKxxx	7/21/2008	WPCL_L-499-08_S_OP	<b>46.4</b>	59.8	25	DFG-WPCL
PBDE 017, Total ng/g dw	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_PBDE	<b>218</b>	<b>198</b>	12	DFG-WPCL
	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_PBDE	<b>202</b>	<b>192</b>	3	DFG-WPCL
PBDE 028, Total ng/g dw	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_PBDE	<b>208</b>	<b>184</b>	14	DFG-WPCL
	531SAC001	7/22/2008	WPCL_L-499-08_BS534_S_PBDE	<b>233</b>	<b>165</b>	<b>32</b>	DFG-WPCL
PBDE 047, Total ng/g dw	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_PBDE	143	111	<b>26</b>	DFG-WPCL
PBDE 085, Total ng/g dw	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_PBDE	<b>155</b>	147	8	DFG-WPCL
PBDE 099, Total ng/g dw	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_PBDE	145	<b>249</b>	<b>51</b>	DFG-WPCL
PBDE 153, Total ng/g dw	508SACBLF	6/30/2008	WPCL_L-499-08_BS535_S_PBDE	144	<b>166</b>	12	DFG-WPCL
PCB 101, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	130	<b>159</b>	13	DFG-WPCL
PCB 110, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	133	<b>165</b>	13	DFG-WPCL
PCB 138, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	139	<b>189</b>	15	DFG-WPCL
PCB 149, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	148	<b>210</b>	17	DFG-WPCL
PCB 153, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	<b>157</b>	<b>223</b>	17	DFG-WPCL
PCB 180, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	138	<b>171</b>	11	DFG-WPCL
PCB 187, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_PCB	128	<b>159</b>	14	DFG-WPCL
Permethrin, trans, Total ng/g dw	520BUTEMR	8/19/2008	WPCL_L-024-09_S_PYD-PYN	<b>53.8</b>	90	<b>50</b>	DFG-WPCL
Phosphorus as P, Total mg/Kg dw	204SLE030	6/17/2008	CLS_4170_S_TPHOS	0	0	0	CLS
	304SOKxxx	7/21/2008	CLS_4255_S_TPHOS	<b>56.4</b>	<b>59</b>	2	CLS
	526P00008	6/30/2008	CLS_4256_S_TPHOS	<b>226</b>	<b>202</b>	6	CLS
Selenium, Total mg/Kg dw	531SAC001	7/22/2008	MPSL-DFG_2009Dig13_S_TM	88.7	<b>71.6</b>	18	MPSL-DFG
	541MER542	7/23/2008	MPSL-DFG_2009Dig11_S_TM	81.8	<b>73.2</b>	5	MPSL-DFG
	558CCR010	4/29/2008	MPSL-DFG_2008Dig25_S_TM	70.7	<b>70.9</b>	1	MPSL-DFG
	901SJSJC9	5/21/2008	MPSL-DFG_2009Dig01_S_TM	79.8	<b>74.1</b>	2	MPSL-DFG





Analyte	Station Code	Sample Date	Lab Batch ID	MS %R	MSD %R	RPD	Laboratory
Silver, Total mg/Kg dw	207LAU020	6/17/2008	MPSL-DFG_2009Dig04_S_TM	106	127	16	MPSL-DFG
Tedion, Total ng/g dw	205GUA020	6/17/2008	WPCL_L-415-455-08_BS527_S_OCH	262	249	3	DFG-WPCL
	904CBAHC6	5/21/2008	WPCL_L-326-415-08_BS526_S_OCH	263	275	4	DFG-WPCL
	907SDFRC2	5/21/2008	WPCL_L-326-08_BS525_S_OCH	305	328	7	DFG-WPCL
	907SDFRC2	5/21/2008	WPCL_L-326-08_BS525_S_OCH	305	328	7	DFG-WPCL

**Table 7**

Batches for which certified reference material (CRM) or laboratory control spike (LCS) samples were not run.

Analyte	Batch ID	Notes	Laboratory
Polychlorinated Biphenyls	WPCL_L-499-08_BS534_S_PCB	Tissue SRM was mistakenly analyzed with this set of sediments	DFG-WPCL

**Table 8**

Batches containing certified reference material (CRM) or laboratory control spike (LCS) that did not meet quality control acceptance criteria.

Analyte	StationCode	Batch ID	% Recovery	Laboratory
Aldrin, Total ng/g dw	L-326-415-08-LCS-BS 526	WPCL_L-326-415-08_BS526_S_OCH	259	DFG-WPCL
	L-717-09-LCS-BS 569	WPCL_L-024-717-09_BS569_S_OCH	160	DFG-WPCL
Aluminum, Total mg/Kg dw	srm pac2 81	MPSL-DFG_2009Dig13_S_TM	150	MPSL-DFG
Benz(a)anthracene, Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	50	DFG-WPCL
Benzo(a)pyrene, Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	54.8	DFG-WPCL
Benzo(b)fluoranthene, Total ng/g dw	L-024-09-SRM 1944-BS 559	WPCL_L-024-226-09_BS559_S_PAH	179	DFG-WPCL
Benzo(e)pyrene, Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	64.5	DFG-WPCL
Benzo(g,h,i)perylene, Total ng/g dw	L-024-09-SRM 1944-BS 559	WPCL_L-024-226-09_BS559_S_PAH	165	DFG-WPCL



Analyte	StationCode	Batch ID	% Recovery	Laboratory
Benzo(k)fluoranthene, Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	59.3	DFG-WPCL
Chlordane, cis-, Total ng/g dw	L-326-415-08-SRM 1944- BS 526	WPCL_L-326-415-08_BS526_S_OCH	156	DFG-WPCL
	L-415-455-08-SRM 1944- BS 527	WPCL_L-415-455-08_BS527_S_OCH	184	DFG-WPCL
Chrysene, Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	54.8	DFG-WPCL
Copper, Total mg/Kg dw	srm mess3 22	MPSL-DFG_2008Dig25_S_TM	71.9	MPSL-DFG
DDT(p,p'), Total ng/g dw	L-326-415-08-SRM 1944- BS 526	WPCL_L-326-415-08_BS526_S_OCH	150	DFG-WPCL
	L-717-09-SRM 1944-BS 569	WPCL_L-024-717-09_BS569_S_OCH	160	DFG-WPCL
Deltamethrin, Total ng/g dw	L-415-08-LCS	WPCL_L-415-08_S_PYD-PYN	45.2	DFG-WPCL
	L-499-08-LCS-1	WPCL_L-499-08_S_PYD-PYN	28.8	DFG-WPCL
	L-499-08-LCS-2	WPCL_L-499-08_S_PYD-PYN	30.8	DFG-WPCL
Dieldrin, Total ng/g dw	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_OCH	155	DFG-WPCL
Endosulfan I, Total ng/g dw	L-024-09-LCS-BS 557	WPCL_L-024-09_BS557_S_OCH	40.2	DFG-WPCL
	L-024-09-LCS-BS 558	WPCL_L-024-09_BS558_S_OCH	7.6	DFG-WPCL
	L-326-415-08-LCS-BS 526	WPCL_L-326-415-08_BS526_S_OCH	36.1	DFG-WPCL
	L-499-08-LCS-BS 535	WPCL_L-499-08_BS535_S_OCH	48.9	DFG-WPCL
Endrin, Total ng/g dw	L-024-09-LCS-BS 558	WPCL_L-024-09_BS558_S_OCH	11.2	DFG-WPCL
Indeno(1,2,3-c,d)pyrene, Total ng/g dw	L-024-09-SRM 1944-BS 559	WPCL_L-024-226-09_BS559_S_PAH	251	DFG-WPCL
Manganese, Total mg/Kg dw	srm pac2 72	MPSL-DFG_2008Dig25_S_TM	140	MPSL-DFG
	srm pac2 73	MPSL-DFG_2008Dig26_S_TM	140	MPSL-DFG
	srm pac2 74	MPSL-DFG_2009Dig01_S_TM	144	MPSL-DFG
Methoxychlor, Total ng/g dw	L-326-415-08-LCS-BS 526	WPCL_L-326-415-08_BS526_S_OCH	35.2	DFG-WPCL
	L-415-455-08-LCS-BS 527	WPCL_L-415-455-08_BS527_S_OCH	157	DFG-WPCL
Mirex, Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_OCH	0	DFG-WPCL
Nonachlor, trans-, Total ng/g dw	L-024-09-SRM 1944-BS 558	WPCL_L-024-09_BS558_S_OCH	145	DFG-WPCL
	L-326-08-SRM 1944-BS 525	WPCL_L-326-08_BS525_S_OCH	145	DFG-WPCL
	L-326-415-08-SRM 1944- BS 526	WPCL_L-326-415-08_BS526_S_OCH	174	DFG-WPCL
	L-415-455-08-SRM 1944- BS 527	WPCL_L-415-455-08_BS527_S_OCH	216	DFG-WPCL



Analyte	StationCode	Batch ID	% Recovery	Laboratory
Oxychlorodane, Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_OCH	0	DFG-WPCL
PBDE 138,Total ng/g dw	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_PBDE	169	DFG-WPCL
PBDE 153,Total ng/g dw	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_PBDE	160	DFG-WPCL
PBDE 154,Total ng/g dw	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_PBDE	166	DFG-WPCL
PBDE 183,Total ng/g dw	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_PBDE	169	DFG-WPCL
PBDE 190,Total ng/g dw	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_PBDE	180	DFG-WPCL
PCB 008,Total ng/g dw	L-717-09-SRM 1944-BS 569	WPCL_L-024-717-09_BS569_S_PCB	146	DFG-WPCL
PCB 018,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 028, Total ng/g dw	L-499-08-SRM 1944-BS 535	WPCL_L-499-08_BS535_S_PCB	147	DFG-WPCL
	L-717-09-SRM 1944-BS 569	WPCL_L-024-717-09_BS569_S_PCB	141	DFG-WPCL
PCB 031,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 033,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 049,Total ng/g dw	L-499-08-SRM 1944-BS 535	WPCL_L-499-08_BS535_S_PCB	147	DFG-WPCL
PCB 070,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 114,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 128, Total ng/g dw	L-326-08-SRM 1944-BS 525	WPCL_L-326-08_BS525_S_PCB	143	DFG-WPCL
	L-415-455-08-SRM 1944- BS 527	WPCL_L-415-455-08_BS527_S_PCB	139	DFG-WPCL
	L-499-08-SRM 1944-BS 535	WPCL_L-499-08_BS535_S_PCB	156	DFG-WPCL
	L-717-09-SRM 1944-BS 569	WPCL_L-024-717-09_BS569_S_PCB	155	DFG-WPCL
PCB 137,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 138,Total ng/g dw	L-024-09-SRM 1944-BS 558	WPCL_L-024-09_BS558_S_PCB	66.3	DFG-WPCL
PCB 141,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	151	DFG-WPCL
PCB 151,Total ng/g dw	L-024-09-SRM 1944-BS 558	WPCL_L-024-09_BS558_S_PCB	65.6	DFG-WPCL
PCB 157,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 158,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL



Analyte	StationCode	Batch ID	% Recovery	Laboratory
PCB 170, Total ng/g dw	L-024-09-SRM 1944-BS 558	WPCL_L-024-09_BS558_S_PCB	57.1	DFG-WPCL
	L-326-415-08-SRM 1944- BS 526	WPCL_L-326-415-08_BS526_S_PCB	59.3	DFG-WPCL
PCB 174,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 177,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 189,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 194,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 195,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 203,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 206,Total ng/g dw	L-024-09-SRM 1944-BS 558	WPCL_L-024-09_BS558_S_PCB	177	DFG-WPCL
PCB 206,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
PCB 209,Total ng/g dw	L-024-09-SRM 1944-BS 557	WPCL_L-024-09_BS557_S_PCB	197	DFG-WPCL
PCB 209,Total ng/g na	L-499-08-SRM 1588b-BS 534	WPCL_L-499-08_BS534_S_PCB	0	DFG-WPCL
Perylene,Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	46.9	DFG-WPCL
Pyrene,Total ng/g dw	L-499-08-SRM 1944-BS 536	WPCL_L-499-08_BS536_S_PAH	64.3	DFG-WPCL
Tedion, Total ng/g dw	L-024-09-LCS-BS 558	WPCL_L-024-09_BS558_S_OCH	184	DFG-WPCL
	L-326-08-LCS-BS 525	WPCL_L-326-08_BS525_S_OCH	310	DFG-WPCL
	L-326-415-08-LCS-BS 526	WPCL_L-326-415-08_BS526_S_OCH	268	DFG-WPCL
	L-415-455-08-LCS-BS 527	WPCL_L-415-455-08_BS527_S_OCH	256	DFG-WPCL
	L-499-08-LCS-BS 534	WPCL_L-499-08_BS534_S_OCH	156	DFG-WPCL
	L-499-08-LCS-BS 535	WPCL_L-499-08_BS535_S_OCH	163	DFG-WPCL
	L-717-09-LCS-BS 569	WPCL_L-024-717-09_BS569_S_OCH	152	DFG-WPCL
Zinc,Total mg/Kg dw	srm pac2 72	MPSL-DFG_2008Dig25_S_TM	69.9	MPSL-DFG
	srm pac2 73	MPSL-DFG_2008Dig26_S_TM	69.5	MPSL-DFG
	srm pac2 75	MPSL-DFG_2009Dig02_S_TM	71.8	MPSL-DFG





**Table 9**  
Batches for which laboratory duplicates (DUP) were not run.

Analyte	Batch ID	Notes	Laboratory
Phosphorus as P, Total mg/Kg dw	CLS_4066_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_4170_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_4255_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_4256_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_4803_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_4804_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_5286_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS
	CLS_5415_S_TPHOS	No sample duplicate (LCS, LCSD performed).	CLS



**Table 10**  
Laboratory duplicate samples that did not meet quality control acceptance criteria.

Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
Acenaphthene, Total ng/g dw	515YBAMVL	8/19/2008	-0.894	1.18	200	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Acenaphthylene, Total ng/g dw	515YBAMVL	8/19/2008	1.3	2.33	57	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Anthracene, Total ng/g dw	309TDWxxx	7/21/2008	70909	106570	40	MPSL-DFG	MPSL-DFG_2009Dig12_S_TM
	531SAC001	7/22/2008	98021	69828	34	MPSL-DFG	MPSL-DFG_2009Dig13_S_TM
	305THUxxx	7/21/2008	1.04	-0.831	200	DFG-WPCL	WPCL_L-499-08_BS536_S_PAH
	515YBAMVL	8/19/2008	5	9.53	62	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Benz(a)anthracene, Total ng/g dw	515YBAMVL	8/19/2008	9.03	18.5	69	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	1.93	2.59	29	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Benzo(a)pyrene, Total ng/g dw	515YBAMVL	8/19/2008	5.86	11.5	65	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Benzo(b)fluoranthene, Total ng/g dw	515YBAMVL	8/19/2008	21	37.1	55	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Benzo(e)pyrene, Total ng/g dw	515YBAMVL	8/19/2008	10.1	16.7	49	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Benzo(g,h,i)perylene, Total ng/g dw	515YBAMVL	8/19/2008	6.23	8.08	26	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Benzo(k)fluoranthene, Total ng/g dw	515YBAMVL	8/19/2008	6.51	12.8	65	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Bifenthrin, Total ng/g dw	504BCHROS	6/30/2008	1	1.34	29	DFG-WPCL	WPCL_L-499-08_S_PYD-PYN
	305THUxxx	7/21/2008	3.61	2.51	36	DFG-WPCL	WPCL_L-499-08_BS536_S_PAH
	515YBAMVL	8/19/2008	-0.894	1.23	200	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	1.6	0.71	77	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH

Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
Chrysene,Total ng/g dw	515YBAMVL	8/19/2008	16.4	34.8	72	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Chrysenes, C1-,Total ng/g dw	515YBAMVL	8/19/2008	9.21	16	54	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	515YBAMVL	8/19/2008	6.43	11.2	54	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	2.47	4.11	50	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
	515YBAMVL	8/19/2008	4.99	9.26	60	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	2.6	3.47	29	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
	Dacthal,Total ng/g dw	902SSMR07	5/21/2008	-0.094	0.173	200	DFG-WPCL
DDD(o,p'),Total ng/g dw	205COY060	6/17/2008	4.15	3.07	30	DFG-WPCL	WPCL_L-415-455-08_BS527_S_OCH
	515YBAMVL	8/19/2008	-0.157	0.186	200	DFG-WPCL	WPCL_L-024-09_BS557_S_OCH
	515YBAMVL	8/19/2008	0.361	0.517	36	DFG-WPCL	WPCL_L-024-09_BS557_S_OCH
	902SSMR07	5/21/2008	0.406	1.55	120	DFG-WPCL	WPCL_L-326-415-08_BS526_S_OCH
	902SSMR07	5/21/2008	-0.174	0.183	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_OCH
	845SGRDRE	5/20/2008	1.1	0.85	26	DFG-WPCL	WPCL_L-326-08_BS525_S_OCH
	902SSMR07	5/21/2008	5.05	6.56	26	DFG-WPCL	WPCL_L-326-415-08_BS526_S_OCH
	Dibenz(a,h)anthracene,Total ng/g dw	515YBAMVL	8/19/2008	1.81	3.86	72	DFG-WPCL
Dibenzothiophenes, C1-,Total ng/g dw	904CBAHC6	5/21/2008	0.61	-0.607	200	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
	515YBAMVL	8/19/2008	4.96	6.8	31	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	515YBAMVL	8/19/2008	5.98	9.89	49	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	0.87	1.77	68	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
	Dieldrin,Total ng/g dw	515YBAMVL	8/19/2008	0.736	-0.715	200	DFG-WPCL



Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
Dieldrin, Total ng/g dw	845SGRDRE	5/20/2008	5.06	3.48	37	DFG-WPCL	WPCL_L-326-08_BS525_S_OCH
Endrin, Total ng/g dw	305THUxxx	7/21/2008	-0.295	0.312	200	DFG-WPCL	WPCL_L-499-08_BS534_S_OCH
Fluoranthene, Total ng/g dw	515YBAMVL	8/19/2008	53.1	90.9	53	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Fluoranthene/Pyrenes, C1-, Total ng/g dw	515YBAMVL	8/19/2008	27.7	60.1	74	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	3.44	5.72	50	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Fluorene, Total ng/g dw	515YBAMVL	8/19/2008	2.05	2.82	32	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Fluorenes, C1-, Total ng/g dw	904CBAHC6	5/21/2008	0.83	-0.607	200	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
	904CBAHC6	5/21/2008	2.69	1.88	35	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Hexachlorobenzene, Total ng/g dw	205COY060	6/17/2008	1.43	0.917	44	DFG-WPCL	WPCL_L-415-455-08_BS527_S_OCH
Manganese, Total mg/Kg dw	207LAU020	6/17/2008	1727	2605	40	MPSL-DFG	MPSL-DFG_2009Dig04_S_TM
Mercury, Total mg/Kg dw	000NONPJ	3/16/2009	0.111	0.197	56	MPSL-DFG	MPSL-DFG_FIMS09Dig19_S_Hg
	307CMLxxx	6/17/2008	0.022	0.013	51	MPSL-DFG	MPSL-DFG_FIMS08Dig38_S_Hg
	551LKI040	4/29/2008	0.05	0.035	35	MPSL-DFG	MPSL-DFG_FIMS08Dig35_S_Hg
Methoxychlor, Total ng/g dw	105KLAMKK	10/15/2008	-0.238	0.285	200	DFG-WPCL	WPCL_L-024-09_BS558_S_OCH
	902SSMR07	5/21/2008	0.209	-0.15	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_OCH
Methyldibenzothiophene, 4-, Total ng/g dw	515YBAMVL	8/19/2008	-0.894	0.88	200	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Methylfluoranthene, 2-, Total ng/g dw	515YBAMVL	8/19/2008	4.58	8.57	61	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	-0.603	0.67	200	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
	904CBAHC6	5/21/2008	1.05	0.78	30	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Methylphenanthrene, 1-, Total ng/g dw	515YBAMVL	8/19/2008	2.9	4.11	35	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH





Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
Naphthalene, Total ng/g dw	904CBAHC6	5/21/2008	2.48	1.42	54	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Naphthalenes, C1-, Total ng/g dw	904CBAHC6	5/21/2008	1.69	1.22	32	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Naphthalenes, C2-, Total ng/g dw	305THUxxx	7/21/2008	25.8	15.4	50	DFG-WPCL	WPCL_L-499-08_BS536_S_PAH
Naphthalenes, C4-, Total ng/g dw	305THUxxx	7/21/2008	16.7	12.2	31	DFG-WPCL	WPCL_L-499-08_BS536_S_PAH
Oxadiazon, Total ng/g dw	305THUxxx	7/21/2008	0.948	-0.892	200	DFG-WPCL	WPCL_L-499-08_BS534_S_OCH
	902SSMR07	5/21/2008	2.94	4.85	49	DFG-WPCL	WPCL_L-326-415-08_BS526_S_OCH
PBDE 017, Total ng/g dw	305THUxxx	7/21/2008	0.664	-0.228	200	DFG-WPCL	WPCL_L-499-08_BS534_S_PBDE
PBDE 028, Total ng/g dw	515YBAMVL	8/19/2008	-0.242	0.616	200	DFG-WPCL	WPCL_L-024-09_BS557_S_PBDE
	845SGRDRE	5/20/2008	-0.137	0.186	200	DFG-WPCL	WPCL_L-326-08_BS525_S_PBDE
PBDE 047, Total ng/g dw	205COY060	6/17/2008	15.1	11.3	29	DFG-WPCL	WPCL_L-415-08_BS527_S_PBDE
	504BCHROS	6/30/2008	2.71	-0.314	200	DFG-WPCL	WPCL_L-499-08_BS535_S_PBDE
PBDE 085, Total ng/g dw	205COY060	6/17/2008	1.99	1.18	51	DFG-WPCL	WPCL_L-415-08_BS527_S_PBDE
	504BCHROS	6/30/2008	-0.288	0.363	200	DFG-WPCL	WPCL_L-499-08_BS535_S_PBDE
PBDE 099, Total ng/g dw	205COY060	6/17/2008	39.9	27.3	28	DFG-WPCL	WPCL_L-415-08_BS527_S_PBDE
PBDE 100, Total ng/g dw	205COY060	6/17/2008	8.33	5.74	37	DFG-WPCL	WPCL_L-415-08_BS527_S_PBDE
	305THUxxx	7/21/2008	0.477	-0.257	200	DFG-WPCL	WPCL_L-499-08_BS534_S_PBDE
	515YBAMVL	8/19/2008	0.834	-0.26	200	DFG-WPCL	WPCL_L-024-09_BS557_S_PBDE
PBDE 138, Total ng/g dw	515YBAMVL	8/19/2008	0.537	-0.331	200	DFG-WPCL	WPCL_L-024-09_BS557_S_PBDE
	845SGRDRE	5/20/2008	0.489	-0.309	200	DFG-WPCL	WPCL_L-326-08_BS525_S_PBDE
PBDE 153, Total ng/g dw	515YBAMVL	8/19/2008	0.397	-0.307	200	DFG-WPCL	WPCL_L-024-09_BS557_S_PBDE



Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
PBDE 190, Total ng/g dw	504BCHROS	6/30/2008	-0.71	1.63	200	DFG-WPCL	WPCL_L-499-08_BS535_S_PBDE
	515YBAMVL	8/19/2008	0.922	-0.723	200	DFG-WPCL	WPCL_L-024-09_BS557_S_PBDE
PCB 028, Total ng/g dw	845SGRDRE	5/20/2008	-0.312	0.229	200	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 033, Total ng/g dw	205COY060	6/17/2008	-0.27	0.255	200	DFG-WPCL	WPCL_L-415-455-08_BS527_S_PCB
PCB 056, Total ng/g dw	845SGRDRE	5/20/2008	0.239	0.182	27	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
	902SSMR07	5/21/2008	-0.053	0.055	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 060, Total ng/g dw	845SGRDRE	5/20/2008	-0.122	0.09	200	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 064, Total ng/g dw	845SGRDRE	5/20/2008	-0.099	0.078	200	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 066, Total ng/g dw	845SGRDRE	5/20/2008	0.442	0.303	37	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
	902SSMR07	5/21/2008	-0.095	0.109	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 070, Total ng/g dw	845SGRDRE	5/20/2008	0.854	0.655	26	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
	902SSMR07	5/21/2008	-0.127	0.215	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 074, Total ng/g dw	515YBAMVL	8/19/2008	-0.327	0.357	200	DFG-WPCL	WPCL_L-024-09_BS557_S_PCB
PCB 077, Total ng/g dw	845SGRDRE	5/20/2008	0.225	0.172	27	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 087, Total ng/g dw	902SSMR07	5/21/2008	-0.074	0.117	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 095, Total ng/g dw	902SSMR07	5/21/2008	-0.108	0.205	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 097, Total ng/g dw	902SSMR07	5/21/2008	-0.061	0.086	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 099, Total ng/g dw	902SSMR07	5/21/2008	-0.083	0.088	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 101, Total ng/g dw	902SSMR07	5/21/2008	-0.122	0.229	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 105, Total ng/g dw	902SSMR07	5/21/2008	-0.131	0.138	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB



Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
PCB 110,Total ng/g dw	902SSMR07	5/21/2008	-0.167	0.284	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 118,Total ng/g dw	902SSMR07	5/21/2008	-0.207	0.279	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 137,Total ng/g dw	205COY060	6/17/2008	0.15	0.11	31	DFG-WPCL	WPCL_L-415-455-08_BS527_S_PCB
PCB 149,Total ng/g dw	902SSMR07	5/21/2008	-0.078	0.092	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
PCB 194,Total ng/g dw	845SGRDRE	5/20/2008	1.18	0.912	26	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 195,Total ng/g dw	845SGRDRE	5/20/2008	0.31	0.239	26	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB 209,Total ng/g dw	845SGRDRE	5/20/2008	0.116	0.088	27	DFG-WPCL	WPCL_L-326-08_BS525_S_PCB
PCB AROCLOR 1248,Total ng/g dw	205COY060	6/17/2008	-11.4	13	200	DFG-WPCL	WPCL_L-415-455-08_BS527_S_PCB
	902SSMR07	5/21/2008	-1.96	3	200	DFG-WPCL	WPCL_L-326-415-08_BS526_S_PCB
Phenanthrene,Total ng/g dw	515YBAMVL	8/19/2008	21.3	27.6	26	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Phenanthrene/Anthracene, C1-,Total ng/g dw	515YBAMVL	8/19/2008	13.7	20.5	40	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Phenanthrene/Anthracene, C2-, Total ng/g dw	515YBAMVL	8/19/2008	18	29.9	50	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	2.05	4.96	83	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Phenanthrene/Anthracene, C3-, Total ng/g dw	515YBAMVL	8/19/2008	16	30.4	62	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	1.31	4.99	120	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Phenanthrene/Anthracene, C4-, Total ng/g dw	515YBAMVL	8/19/2008	11.4	17.8	44	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
	904CBAHC6	5/21/2008	-0.603	1.3	200	DFG-WPCL	WPCL_L-326-415-08_BS547_S_PAH
Pyrene,Total ng/g dw	515YBAMVL	8/19/2008	33.7	62	60	DFG-WPCL	WPCL_L-024-226-09_BS559_S_PAH
Selenium,Total mg/Kg dw	207LAU020	6/17/2008	0.63	1.37	74	MPSL-DFG	MPSL-DFG_2009Dig04_S_TM
	309TDWxxx	7/21/2008	0.82	1.13	32	MPSL-DFG	MPSL-DFG_2009Dig12_S_TM



Analyte	Station Code	Sample Date	Parent Value	Duplicate Value	RPD	Laboratory	Batch ID
Selenium, Total mg/Kg dw	531SAC001	7/22/2008	-0.27	0.53	200	MPSL-DFG	MPSL-DFG_2009Dig13_S_TM
	911TJHRxx	5/22/2008	2.72	1.58	53	MPSL-DFG	MPSL-DFG_2009Dig02_S_TM
Silver, Total mg/Kg dw	207LAU020	6/17/2008	0.28	0.09	103	MPSL-DFG	MPSL-DFG_2009Dig04_S_TM
	309TDWxxx	7/21/2008	0.19	0.32	49	MPSL-DFG	MPSL-DFG_2009Dig12_S_TM



**Table 11**  
Field duplicate samples that did not meet quality control acceptance criteria.

Analyte	Station Code	Date	Field Sample	Field Duplicate	RPD	Laboratory
Anthracene, Total ng/g dw	205COY060	17/June/2008	9.08	6.11	39	DFG-WPCL
Cyhalothrin, lambda, total, Total ng/g dw	205COY060	17/June/2008	1.94	3.5	57	DFG-WPCL
DDD(o,p'), Total ng/g dw	205COY060	17/June/2008	4.15	3.06	30	DFG-WPCL
DDE(o,p'), Total ng/g dw	205COY060	17/June/2008	0.482	0.367	27	DFG-WPCL
	205COY060	17/June/2008	18.8	14.2	28	DFG-WPCL
DDMU(p,p'), Total ng/g dw	205COY060	17/June/2008	1.44	1.07	29	DFG-WPCL
DDT(o,p'), Total ng/g dw	205COY060	17/June/2008	0.892	0.676	28	DFG-WPCL
	205COY060	17/June/2008	5.25	3.48	41	DFG-WPCL
Granule 2.0 to <4.0 mm %	205COY060	17/June/2008	1.52	0.24	145	AMS
Methylfluorene, 1-, Total ng/g dw	205COY060	17/June/2008	4.47	3.37	28	DFG-WPCL
Naphthalenes, C4-, Total ng/g dw	205COY060	17/June/2008	6.09	4.4	32	DFG-WPCL
PBDE 017, Total ng/g dw	205COY060	17/June/2008	0.205	0.13	45	DFG-WPCL
Permethrin, cis-, Total ng/g dw	205COY060	17/June/2008	14.8	3.98	115	DFG-WPCL
Phenanthrene/Anthracene, C4-, Total ng/g dw	205COY060	17/June/2008	39.5	28.5	32	DFG-WPCL
Phosphorus as P, Total mg/Kg dw	205COY060	17/June/2008	25.07	17.75	34	CLS
Sand	205COY060	17/June/2008	4.08	3.35	20	AMS
Bifenthrin, Total ng/g dw	504BCHROS	30/June/2008	0.758	1	28	DFG-WPCL
Chlordane, cis-, Total ng/g dw	504BCHROS	30/June/2008	0.681	1.79	90	DFG-WPCL
Chlordane, trans-, Total ng/g dw	504BCHROS	30/June/2008	0.761	1.45	62	DFG-WPCL
DDD(o,p'), Total ng/g dw	504BCHROS	30/June/2008	12.1	20.2	50	DFG-WPCL
DDD(p,p'), Total ng/g dw	504BCHROS	30/June/2008	97.3	42.4	79	DFG-WPCL
DDE(o,p'), Total ng/g dw	504BCHROS	30/June/2008	-0.289	0.339	200	DFG-WPCL
DDE(p,p'), Total ng/g dw	504BCHROS	30/June/2008	6.62	10	41	DFG-WPCL
DDMU(p,p'), Total ng/g dw	504BCHROS	30/June/2008	1.29	1.95	41	DFG-WPCL
DDT(o,p'), Total ng/g dw	504BCHROS	30/June/2008	2.78	7	86	DFG-WPCL
DDT(p,p'), Total ng/g dw	504BCHROS	30/June/2008	51.9	39.5	27	DFG-WPCL
Dieldrin, Total ng/g dw	504BCHROS	30/June/2008	0.885	1.5	52	DFG-WPCL
Granule 2.0 to <4.0 mm %	504BCHROS	30/June/2008	0.36	0.03	169	AMS



Analyte	Station Code	Date	Field Sample	Field Duplicate	RPD	Laboratory
Mercury,Total mg/Kg dw	504BCHROS	30/June/2008	0.137	0.079	54	MPSL-DFG
Nonachlor, trans-,Total ng/g dw	504BCHROS	30/June/2008	0.745	1.68	77	DFG-WPCL
PCB 052,Total ng/g dw	504BCHROS	30/June/2008	-0.325	0.348	200	DFG-WPCL
PCB 095,Total ng/g dw	504BCHROS	30/June/2008	-0.488	0.51	200	DFG-WPCL
PCB 101,Total ng/g dw	504BCHROS	30/June/2008	-0.488	0.652	200	DFG-WPCL
PCB 105,Total ng/g dw	504BCHROS	30/June/2008	-0.325	0.412	200	DFG-WPCL
PCB 110,Total ng/g dw	504BCHROS	6/30/2008	0.609	0.902	20	DFG-WPCL
PCB 118,Total ng/g dw	504BCHROS	6/30/2008	0.536	0.738	32	DFG-WPCL
PCB 138,Total ng/g dw	504BCHROS	6/30/2008	0.378	0.708	61	DFG-WPCL
PCB 149,Total ng/g dw	504BCHROS	6/30/2008	-0.325	0.417	200	DFG-WPCL
PCB 153,Total ng/g dw	504BCHROS	6/30/2008	-0.325	0.509	200	DFG-WPCL
PCB AROCLOR 1254,Total ng/g dw	504BCHROS	6/30/2008	4	7	55	DFG-WPCL
PCB AROCLOR 1260,Total ng/g dw	504BCHROS	6/30/2008	6	8	29	DFG-WPCL
Pebble 4 to <64 mm,Small 4 to <8 mm %	504BCHROS	6/30/2008	0.29	1	110	AMS
Selenium,Total mg/Kg dw	504BCHROS	6/30/2008	0.29	0.65	77	MPSL-DFG
	504BCHROS	6/30/2008	0.55	1.08	65	MPSL-DFG
Silver,Total mg/Kg dw	504BCHROS	6/30/2008	0.19	0.44	79	MPSL-DFG
Arsenic,Total mg/Kg dw	515YBAMVL	8/19/2008	13	9.92	27	MPSL-DFG
Biphenyl,Total ng/g dw	515YBAMVL	8/19/2008	0.83	-0.894	200	DFG-WPCL
Chrysene,Total ng/g dw	515YBAMVL	8/19/2008	12.4	16.4	28	DFG-WPCL
Cyhalothrin, lambda, total,Total ng/g dw	515YBAMVL	8/19/2008	2.61	-1	200	DFG-WPCL
Dibenzothiophene,Total ng/g dw	515YBAMVL	8/19/2008	0.94	1.22	26	DFG-WPCL
Dibenzothiophenes, C2-,Total ng/g dw	515YBAMVL	8/19/2008	3.7	4.96	29	DFG-WPCL
Dieldrin,Total ng/g dw	515YBAMVL	8/19/2008	0.736	-0.788	200	DFG-WPCL
Dimethylnaphthalene, 2,6-,Total ng/g dw	515YBAMVL	8/19/2008	2.84	1.93	38	DFG-WPCL
Fluorenes, C2-,Total ng/g dw	515YBAMVL	8/19/2008	10	7.45	29	DFG-WPCL
Fluorenes, C3-,Total ng/g dw	515YBAMVL	8/19/2008	16.4	24.1	38	DFG-WPCL
Granule 2.0 to <4.0 mm %	515YBAMVL	8/19/2008	0.2	0.54	92	AMS
Lead,Total mg/Kg dw	515YBAMVL	8/19/2008	16.7	11.8	34	MPSL-DFG
Mercury,Total mg/Kg dw	515YBAMVL	8/19/2008	0.159	0.49	102	MPSL-DFG
Methylphenanthrene, 1-,Total ng/g dw	515YBAMVL	8/19/2008	2.13	2.9	31	DFG-WPCL
Naphthalenes, C2-,Total ng/g dw	515YBAMVL	8/19/2008	4.87	3.75	26	DFG-WPCL



Analyte	Station Code	Date	Field Sample	Field Duplicate	RPD	Laboratory
PBDE 099,Total ng/g dw	515YBAMVL	8/19/2008	1.46	1.02	35	DFG-WPCL
PBDE 100,Total ng/g dw	515YBAMVL	8/19/2008	0.834	-0.287	200	DFG-WPCL
PBDE 138,Total ng/g dw	515YBAMVL	8/19/2008	0.537	-0.365	200	DFG-WPCL
PBDE 153,Total ng/g dw	515YBAMVL	8/19/2008	0.397	-0.338	200	DFG-WPCL
PBDE 154,Total ng/g dw	515YBAMVL	8/19/2008	0.44	-0.3	200	DFG-WPCL
PBDE 190,Total ng/g dw	515YBAMVL	8/19/2008	0.922	-0.797	200	DFG-WPCL
Permethrin, trans-,Total ng/g dw	515YBAMVL	8/19/2008	-4	4.14	200	DFG-WPCL
Phenanthrene,Total ng/g dw	515YBAMVL	8/19/2008	15.6	21.3	31	DFG-WPCL
Phenanthrene/Anthracene, C3-, Total ng/g dw	515YBAMVL	8/19/2008	16.2	16	1	DFG-WPCL
Phosphorus as P,Total mg/Kg dw	515YBAMVL	8/19/2008	44	160	114	CLS
Selenium,Total mg/Kg dw	515YBAMVL	8/19/2008	-0.27	2.79	200	MPSL-DFG
Silver,Total mg/Kg dw	515YBAMVL	8/19/2008	0.09	0.19	71	MPSL-DFG
Total Organic Carbon % dw	515YBAMVL	8/19/2008	1.12	1.55	32	AMS
Bifenthrin,Total ng/g dw	845SGRDRE	05/20/2008	36.3	11.9	101	DFG-WPCL
Granule 2.0 to <4.0 mm %	845SGRDRE	05/20/2008	0.05	0.15	100	AMS
Mercury,Total mg/Kg dw	845SGRDRE	05/20/2008	0.041	0.079	63	MPSL-DFG
Methoxychlor,Total ng/g dw	845SGRDRE	05/20/2008	0.425	-0.308	200	DFG-WPCL
PCB 008,Total ng/g dw	845SGRDRE	05/20/2008	0.231	-0.239	200	DFG-WPCL
PCB 018,Total ng/g dw	845SGRDRE	05/20/2008	0.352	-0.196	200	DFG-WPCL
PCB 028,Total ng/g dw	845SGRDRE	05/20/2008	0.535	-0.312	200	DFG-WPCL
PCB 031,Total ng/g dw	845SGRDRE	05/20/2008	0.444	-0.251	200	DFG-WPCL
PCB 033,Total ng/g dw	845SGRDRE	05/20/2008	0.391	-0.251	200	DFG-WPCL
PCB 044,Total ng/g dw	845SGRDRE	05/20/2008	0.701	0.427	49	DFG-WPCL
PCB 049,Total ng/g dw	845SGRDRE	05/20/2008	0.448	0.265	51	DFG-WPCL
PCB 052,Total ng/g dw	845SGRDRE	05/20/2008	1.42	0.758	61	DFG-WPCL
PCB 056,Total ng/g dw	845SGRDRE	05/20/2008	0.311	0.239	26	DFG-WPCL
PCB 060,Total ng/g dw	845SGRDRE	05/20/2008	0.149	-0.122	200	DFG-WPCL
PCB 064,Total ng/g dw	845SGRDRE	05/20/2008	0.139	-0.099	200	DFG-WPCL
PCB 070,Total ng/g dw	845SGRDRE	05/20/2008	1.29	0.854	41	DFG-WPCL
PCB 074,Total ng/g dw	845SGRDRE	05/20/2008	0.344	0.23	40	DFG-WPCL
PCB 087,Total ng/g dw	845SGRDRE	05/20/2008	1.66	1.15	36	DFG-WPCL



Analyte	Station Code	Date	Field Sample	Field Duplicate	RPD	Laboratory
PCB 095,Total ng/g dw	845SGRDRE	05/20/2008	2.52	1.81	33	DFG-WPCL
PCB 097,Total ng/g dw	845SGRDRE	05/20/2008	1.17	0.814	36	DFG-WPCL
PCB 099,Total ng/g dw	845SGRDRE	05/20/2008	1.31	0.866	41	DFG-WPCL
PCB 101,Total ng/g dw	845SGRDRE	05/20/2008	3.46	2.34	39	DFG-WPCL
PCB 105,Total ng/g dw	845SGRDRE	05/20/2008	1.87	1.37	31	DFG-WPCL
PCB 110,Total ng/g dw	845SGRDRE	05/20/2008	4.97	3.7	29	DFG-WPCL
PCB 118,Total ng/g dw	845SGRDRE	05/20/2008	4.07	2.83	36	DFG-WPCL
PCB 128,Total ng/g dw	845SGRDRE	05/20/2008	1.58	1.1	36	DFG-WPCL
PCB 137,Total ng/g dw	845SGRDRE	05/20/2008	0.413	0.277	39	DFG-WPCL
PCB 138,Total ng/g dw	845SGRDRE	05/20/2008	6.17	4.15	39	DFG-WPCL
PCB 141,Total ng/g dw	845SGRDRE	05/20/2008	1.17	0.802	37	DFG-WPCL
PCB 146,Total ng/g dw	845SGRDRE	05/20/2008	0.421	0.308	31	DFG-WPCL
PCB 149,Total ng/g dw	845SGRDRE	05/20/2008	3.7	2.63	34	DFG-WPCL
PCB 151,Total ng/g dw	845SGRDRE	05/20/2008	0.889	0.641	32	DFG-WPCL
PCB 153,Total ng/g dw	845SGRDRE	05/20/2008	4.68	3.27	35	DFG-WPCL
PCB 156,Total ng/g dw	845SGRDRE	05/20/2008	0.726	0.457	45	DFG-WPCL
PCB 157,Total ng/g dw	845SGRDRE	05/20/2008	0.194	0.134	37	DFG-WPCL
PCB 158,Total ng/g dw	845SGRDRE	05/20/2008	1.06	0.675	44	DFG-WPCL
PCB 170,Total ng/g dw	845SGRDRE	05/20/2008	1.24	0.938	28	DFG-WPCL
PCB 177,Total ng/g dw	845SGRDRE	05/20/2008	0.738	0.57	26	DFG-WPCL
PCB AROCLOR 1248,Total ng/g dw	845SGRDRE	05/20/2008	16	-10.6	200	DFG-WPCL
PCB AROCLOR 1254,Total ng/g dw	845SGRDRE	05/20/2008	47	29	47	DFG-WPCL
Pebble 4 to <64 mm,Small 4 to <8 mm %	845SGRDRE	05/20/2008	3.38	0	200	AMS
Permethrin, cis-,Total ng/g dw	845SGRDRE	05/20/2008	22.6	7.38	102	DFG-WPCL
Permethrin, trans-,Total ng/g dw	845SGRDRE	05/20/2008	13.1	4.1	105	DFG-WPCL
Silver,Total mg/Kg dw	845SGRDRE	05/20/2008	0.46	0.76	49	MPSL-DFG
Dieldrin,Total ng/g dw	907SDFRC2	05/21/2008	-0.804	0.899	200	DFG-WPCL
Granule 2.0 to <4.0 mm %	907SDFRC2	05/21/2008	0.11	0.32	98	AMS
Mercury,Total mg/Kg dw	907SDFRC2	05/21/2008	0.018	0.01	57	MPSL-DFG
Oxadiazon,Total ng/g dw	907SDFRC2	05/21/2008	1.84	1.29	35	DFG-WPCL



**Table 12**  
Samples with holding time exceedances

Station	Sample Date	Analyte Group
000NONPJ	3/16/2009	Mercury
114RRDSDM	10/14/2008	Organochlorine Pesticides
114RRDSDM	10/14/2008	Polychlorinated Biphenyls
201LAG125	8/13/2008	Total Organic Carbon
201WLK160	6/18/2008	Trace Metals
207LAU020	6/17/2008	Trace Metals
305THUxxx	7/21/2008	Polynuclear Aromatic Hydrocarbons
307CMLxxx	6/17/2008	Mercury
403STCEST	5/19/2008	Total Phosphate as Phosphorus
408CAL006	5/19/2008	Mercury
504BCHROS	6/30/2008	Polynuclear Aromatic Hydrocarbons
504BCHROS	6/30/2008	Total Organic Carbon
504SACHMN	6/30/2008	Total Organic Carbon
508SACBLF	6/30/2008	Mercury
508SACBLF	6/30/2008	Polynuclear Aromatic Hydrocarbons
508SACBLF	6/30/2008	Total Organic Carbon
510LSAC08	7/16/2008	Polynuclear Aromatic Hydrocarbons
511CAC113	8/20/2008	Total Organic Carbon
515YBAMVL	8/19/2008	Total Organic Carbon
519AMNDVY	7/16/2008	Polynuclear Aromatic Hydrocarbons
519BERBRY	8/19/2008	Total Organic Carbon
519BERBRY	8/19/2008	Total Phosphate as Phosphorus
519FTRNCS	8/19/2008	Total Organic Carbon
520BUTEMR	8/19/2008	Total Organic Carbon
520CBDKLD	8/20/2008	Total Organic Carbon
520SACLSA	8/19/2008	Total Organic Carbon
526P00008	6/30/2008	Total Organic Carbon
531SAC001	7/22/2008	Polynuclear Aromatic Hydrocarbons
532CAL004	7/22/2008	Polynuclear Aromatic Hydrocarbons



Station	Sample Date	Analyte Group
535MER007	7/23/2008	Polynuclear Aromatic Hydrocarbons
535MER546	7/23/2008	Mercury
535STC206	7/22/2008	Polynuclear Aromatic Hydrocarbons
541SJC501	7/16/2008	Polynuclear Aromatic Hydrocarbons
551LKI040	4/29/2008	Mercury
554SKR010	4/28/2008	Total Phosphate as Phosphorus
558CCR010	4/29/2008	Total Phosphate as Phosphorus
558PKC010	4/29/2008	Total Phosphate as Phosphorus
558TUR090	4/29/2008	Total Phosphate as Phosphorus
719CVSCOT	10/29/2008	Plumb, 1981, GS
723ARGB1	10/28/2008	Grain Size
723ARGB1	10/28/2008	Total Phosphate as Phosphorus
723NROTWM	10/28/2008	Grain Size
801SDCxxx	5/20/2008	Mercury
801SDCxxx	5/20/2008	Total Phosphate as Phosphorus
901SJSJC9	5/21/2008	Total Phosphate as Phosphorus
902SSMR07	5/21/2008	Total Phosphate as Phosphorus
904ESCOxx	5/21/2008	Total Phosphate as Phosphorus
907SDFRC2	5/21/2008	Total Phosphate as Phosphorus
911TJHRxx	5/22/2008	Total Phosphate as Phosphorus
000NONPJ	3/16/2009	Mercury
LABQA	12/10/2009	Polychlorinated Biphenyls





**Table 13**  
Number and type of quality assurance samples measured during the study.

Analyte Grouping		Method	Matrix	# of samples	# of batches	# MS/MSD pairs	Non-project MS/MSDs pairs	# Dups	Non-project Dups	#CRMs	# LCSs	Lab Blanks
Conventionals	Grain Size	Plumb 1981	sediment	97	11	NA	NA	11	0	NA	NA	NA
	Total Phosphorus as P	SM 4500-P E	sediment	97	8	7	0	0	0	7	8 prs	8
	Total Organic Carbon	EPA 9060A	sediment	97	11	NA	NA	11	0	11	NA	11
	Mercury	DFG SOP 103	unsieved	99	11	10	1	11	0	11	NA	11
			sieved	97								
	Total Metals	EPA 200.8	unsieved	97	10	10	0	10	0	10	NA	10
sieved			97									
Organics	Organochlorine Pesticides	EPA 8081BM	sediment	97	8	-	0	7	0	8	8	8
	Organophosphorus Pesticides	EPA 8141AM	sediment	97	4	5	0	6	0	0	5	6
	Polybrominated Diphenyl Ethers	EPA 8081 BM	sediment	97	6	6	0	6	0	0	6	6
	Polychlorinated Biphenyls as Congeners	EPA 8082M	sediment	97	8	7	0	7	0	8	8	8
	Polychlorinated Biphenyls as Aroclors	Newman, et al., 1988	sediment	97	8	NA	0	7	0	NA	NA	8
	Polynuclear Aromatic Hydrocarbons	EPA 8270M	sediment	97	3	3	0	3	0	3	3	3
	Pyrethroids	EPA 8081BM	sediment	97	4	6	0	6	0	0	6	6
Toxicity	Hyaella azteca, 10 day test	EPA 600/R-99-064	sediment	97	11	NA	NA	NA	NA	NA	NA	NA

**Table 14**

Minimum detection limits (MDL) and reporting limits (RL) for measured analytes. Analyses were conducted in batches during the study, so the lowest (min) and highest (max) MDLs and RLs are shown from across all batches. Metals are in units of ug/g dry weight, organic chemicals in ng/g dry weight. TEC is threshold effect concentration and PEC is probable effect concentration, which are consensus based sediment quality guidelines (MacDonald 2000), as described in the List of Acronyms for this report.

Analyte / Units	Min MDL	Max MDL	Min RL	Max RL	TEC	PEC
Acenaphthene	0.603	2.43	0.603	2.43		
Aldrin	0.383	2.37	0.925	5.72		
Aluminum	219	220	500	500		
Anthracene	0.603	220	0.603	500	57.2	845
Arsenic	0.1	0.1	0.3	0.3	9.79	33
Benz(a)anthracene	0.603	2.43	0.603	2.43	1081	1050
Benzo(a)pyrene	0.603	2.43	0.603	2.43	150	1450
Benzo(b)fluoranthene	0.603	2.43	0.603	2.43		
Benzo(e)pyrene	0.603	2.43	0.603	2.43		
Benzo(g,h,i)perylene	0.603	2.43	0.603	2.43		
Benzo(k)fluoranthene	0.603	2.43	0.603	2.43		
Bifenthrin	0.185	0.5	0.37	1		
Biphenyl	0.185	2.43	0.37	2.43		
Cadmium	0.03	0.03	0.1	0.1	0.99	4.98
Chlordane	0.37	2.57	0.925	5.72	3.24	17.6
Chlorpyrifos methyl	25	40.2	50	80.4		
Chlorpyrifos	5	8.04	10	16.1		
Chromium	0.29	0.29	1	1	43.4	111
Chrysene	0.603	2.43	0.603	2.43	166	1290
Copper	0.54	0.54	1.5	1.5	31.6	149
Cyfluthrin	0.148	2	0.296	4		
Cyhalothrin, lambda	0.111	1	0.222	2		
Cypermethrin	0.222	2	0.444	4		
Dacthal	0.089	1.07	0.24	5.72		
DDD(o,p')	0.089	1.07	0.24	5.72		
DDD(p,p')	0.115	1.07	0.31	5.72		



Analyte / Units	Min MDL	Max MDL	Min RL	Max RL	TEC	PEC
DDE(o,p')	0.165	1.07	0.44	8.2		
DDE(p,p')	0.444	2.75	1.18	8.2		
DDMU(p,p')	0.1	2.14	0.27	9.33		
DDT(o,p')	0.2	2.14	0.53	9.33		
DDT(p,p')	0.144	2.14	0.38	9.98		
Deltamethrin/Tralomethrin	0.148	2	0.296	4		
Diazinon; Total	5	8.04	10	16.1		
Dibenz(a,h)anthracene	0.603	2.43	0.603	2.43		
Dibenzothiophenes	0.603	2.43	0.603	2.43		
Dichlofenthion	25	40.2	50	80.4		
Dieldrin	0.346	2.47	0.463	9.57	1.9	61.8
Dimethylphenanthrene	0.603	2.43	0.603	2.43		
Dioxathion	25	40.2	50	80.4		
Endosulfan I	0.518	3.2	1.38	8.2		
Endrin	0.167	2.14	0.62	8.2	2.22	207
Esfenvalerate/Fenvalerate	0.148	1	0.296	2		
Ethion	25	40.2	50	80.4		
Ethoprop	25	40.2	50	80.4		
Fenchlorphos	25	40.2	50	80.4		
Fenitrothion	25	40.2	50	80.4		
Fenpropathrin	0.592	2	1.185	4		
Fluoranthen	0.603	2.43	0.603	2.43	423	2230
Fonofos	25	40.2	50	80.4		
HCH, alpha	0.242	1.5	0.463	2.91		
HCH, beta	0.194	1.2	0.52	5.72		
HCH, gamma	0.133	1.07	0.35	2.86		
Heptachlor epoxide	0.228	1.41	0.61	5.72	2.47	
Heptachlor	0.329	2.14	0.88	5.72		
Hexachlorobenzene	0.32	1.98	0.32	3.85		
Indeno(1,2,3-c,d)pyrene	0.32	2.43	0.32	3.85		
Lead	0.21	0.21	0.5	0.5	35.8	128
Malathion	25	40.2	50	80.4		

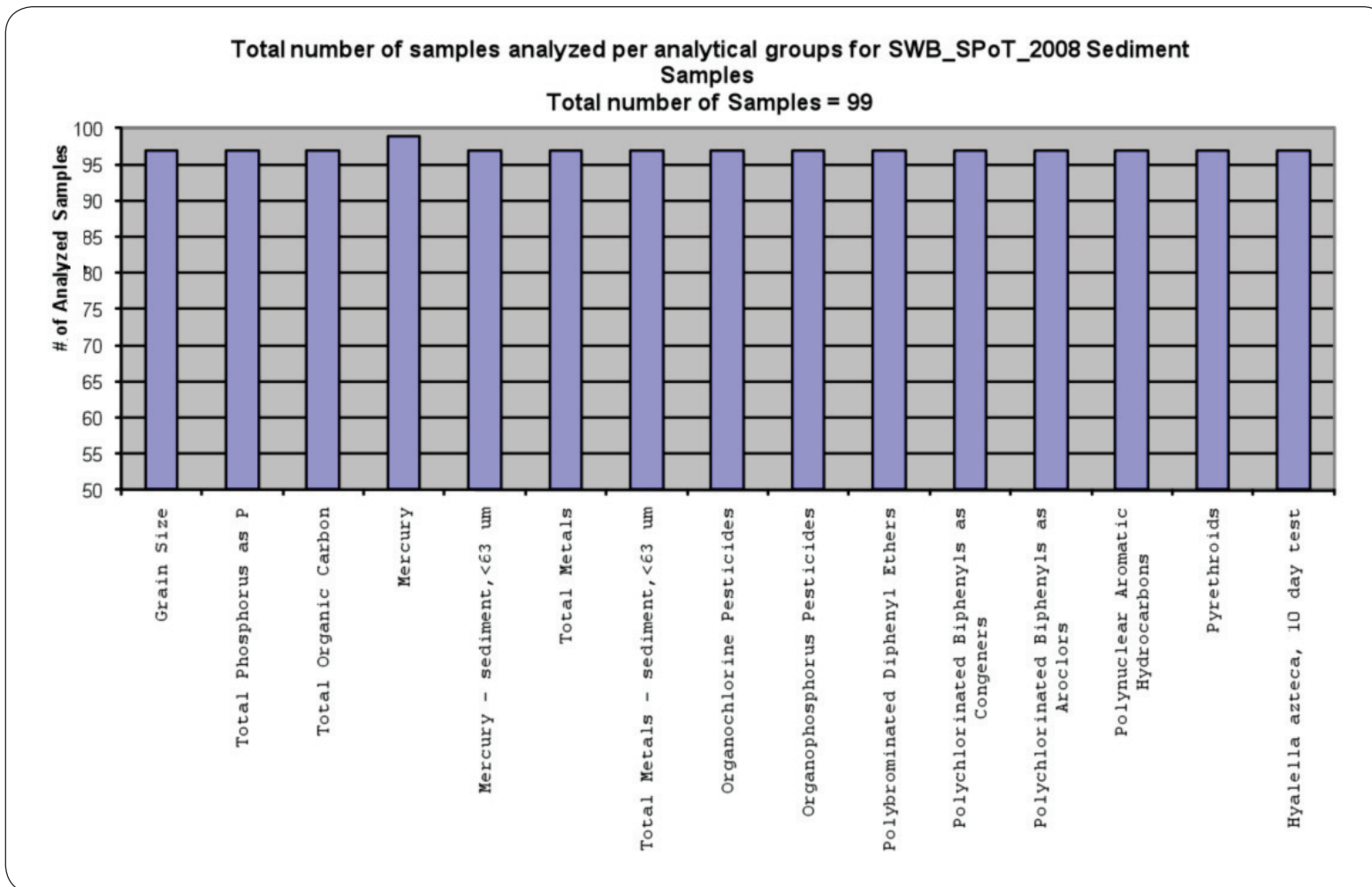


Analyte / Units	Min MDL	Max MDL	Min RL	Max RL	TEC	PEC
Manganese	1.08	1.08	3	3		
Mercury	0.004	0.004	0.012	0.013	0.18	1.06
Merphos	25	40.2	50	80.4		
Methoxychlor	0.135	2.14	1.23	9.33		
Methyldibenzothiophene	0.603	2.43	0.603	2.43		
Methylfluoranthene, 2	0.603	2.43	0.603	2.43		
Methylfluorene, 1	0.603	2.43	0.603	2.43		
Methylnaphthalenes	0.603	2.43	0.603	2.43		
Methylphenanthrene	0.603	2.43	0.603	2.43		
Mirex	0.278	2.14	0.74	8.58		
Naphthalenes	0.603	2.43	0.603	2.43	176	560
Nickel	0.12	0.12	0.4	0.4	22.7	48.6
Nonachlor, cis	0.285	2.14	0.76	5.72		
Nonachlor, trans-	0.179	1.11	0.48	5.72		
Oxadiazon	0.503	3.11	0.925	6.05		
Oxychlorane	0.438	2.71	0.925	5.72		
Parathion, Ethyl	10	16.1	20	32.2		
Parathion, Methyl	10	16.1	20	32.2		
PBDE All	0.039	2.5	0.59	9.15		
PCB All Aroclors	1.85	9.98	10.2	80.8		
PCB All Congeners	0.024	1.67	0.049	5		
Permethrin, cis	0.518	4	1.037	8		
Permethrin, trans	0.889	4	1.777	8		
Perylene	0.603	2.43	0.603	2.43		
Phenanthrene/Anthracene, All	0.603	2.43	0.603	2.43		
Phenanthrene	0.603	2.43	0.603	2.43	204	1170
Phosphamidon	25	40.2	50	80.4		
Phosphorus, Total as P	10	96	100	99		
Pyrene	0.603	2.43	0.603	2.43	195	1520
Selenium	0.27	0.27	1	1		
Silver	0.08	0.08	0.2	0.2		
Sulfotep	25	40.2	50	80.4		

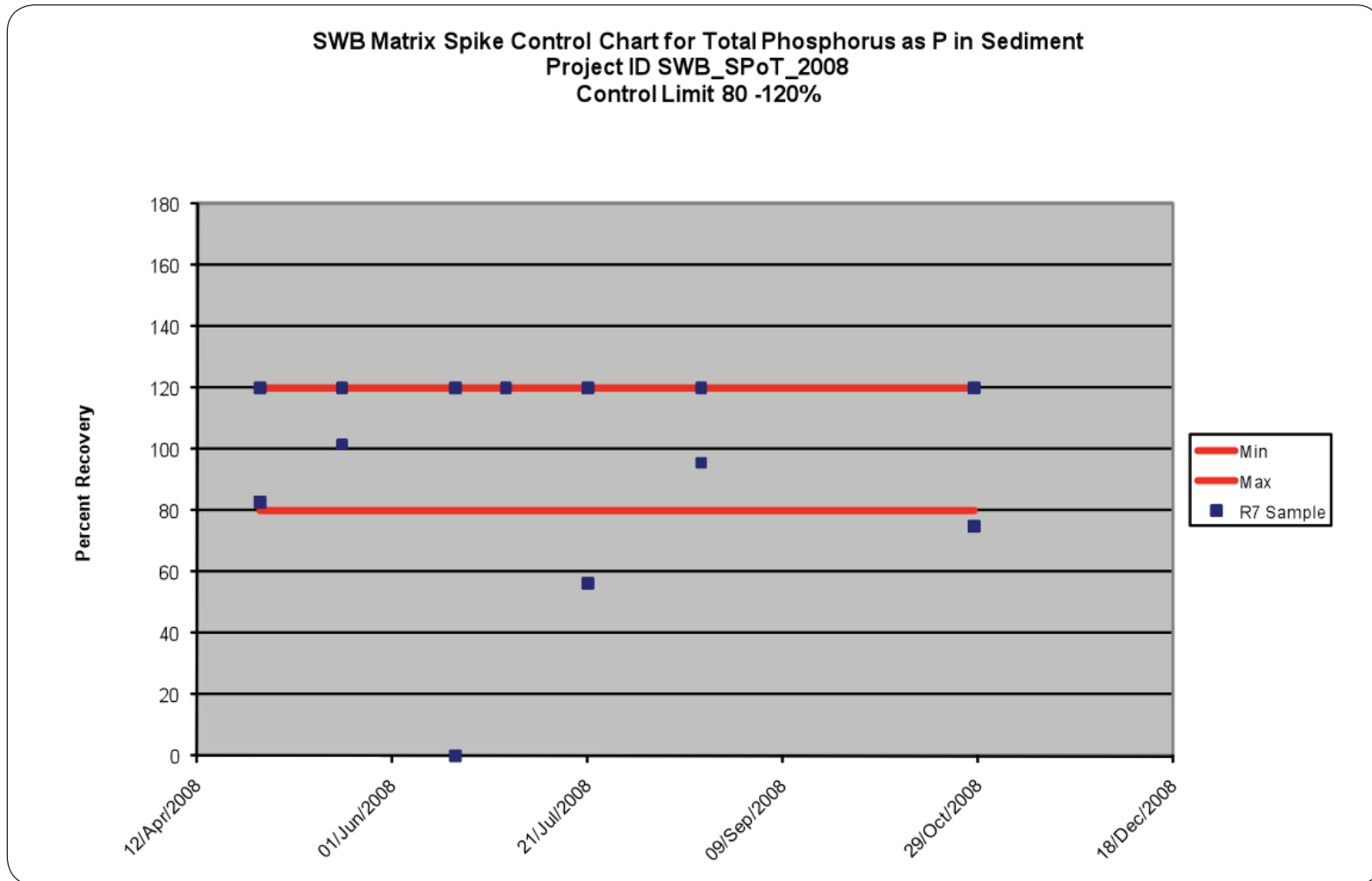


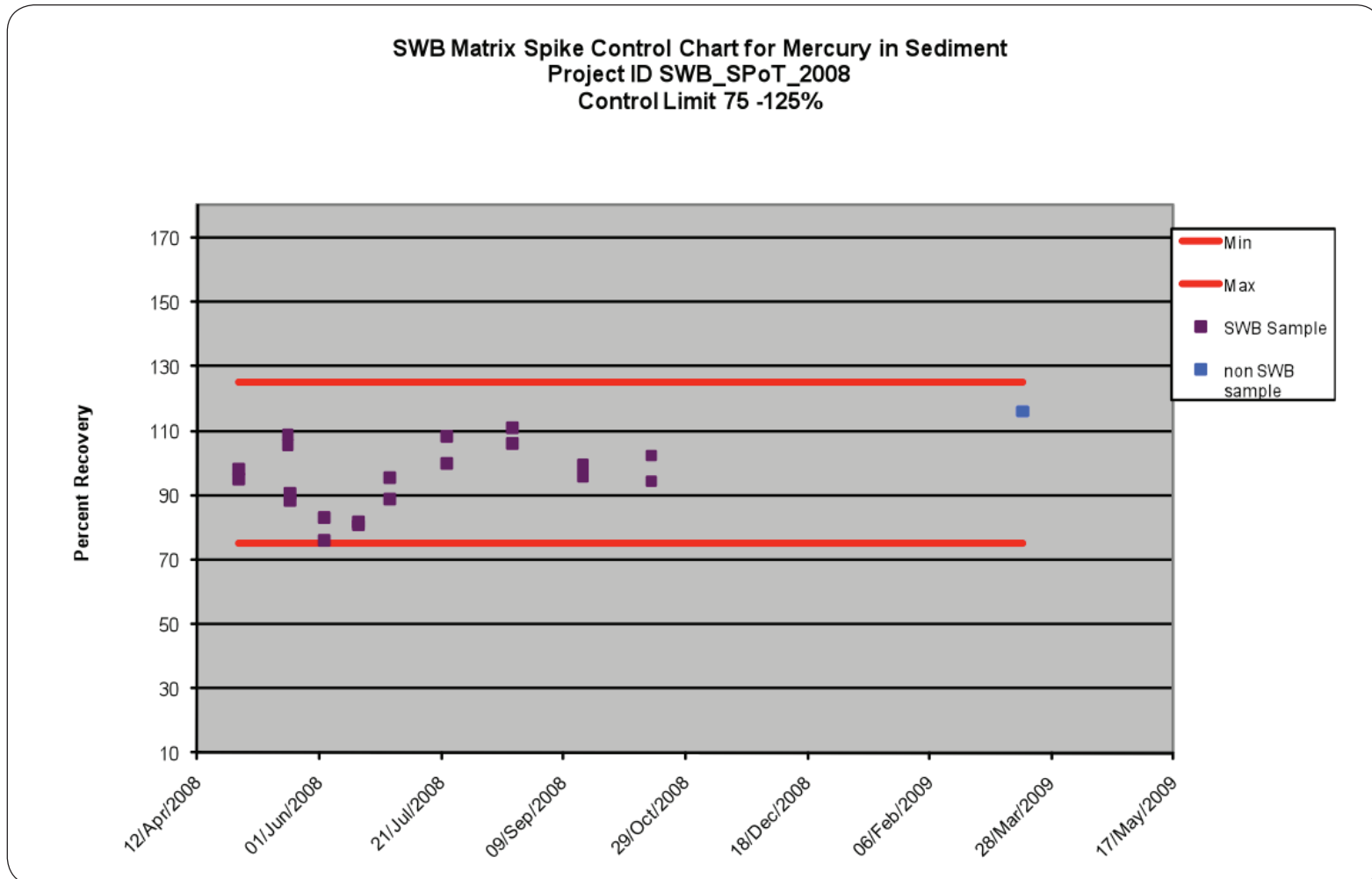
Analyte / Units	Min MDL	Max MDL	Min RL	Max RL	TEC	PEC
Tedion	0.986	6.1	1.85	8.55		
Thionazin	25	40.2	50	80.4		
Tokuthion	25	40.2	50	80.4		
Trichloronate	10	40.2	20	80.4		
Trimethylnaphthalene	0.603	2.43	0.603	2.43		
Zinc	3.2	3.2	10	10	121	459
Total DDTs					5.28	572
Total PAHs					1610	22800
Total PCBs					59.8	676

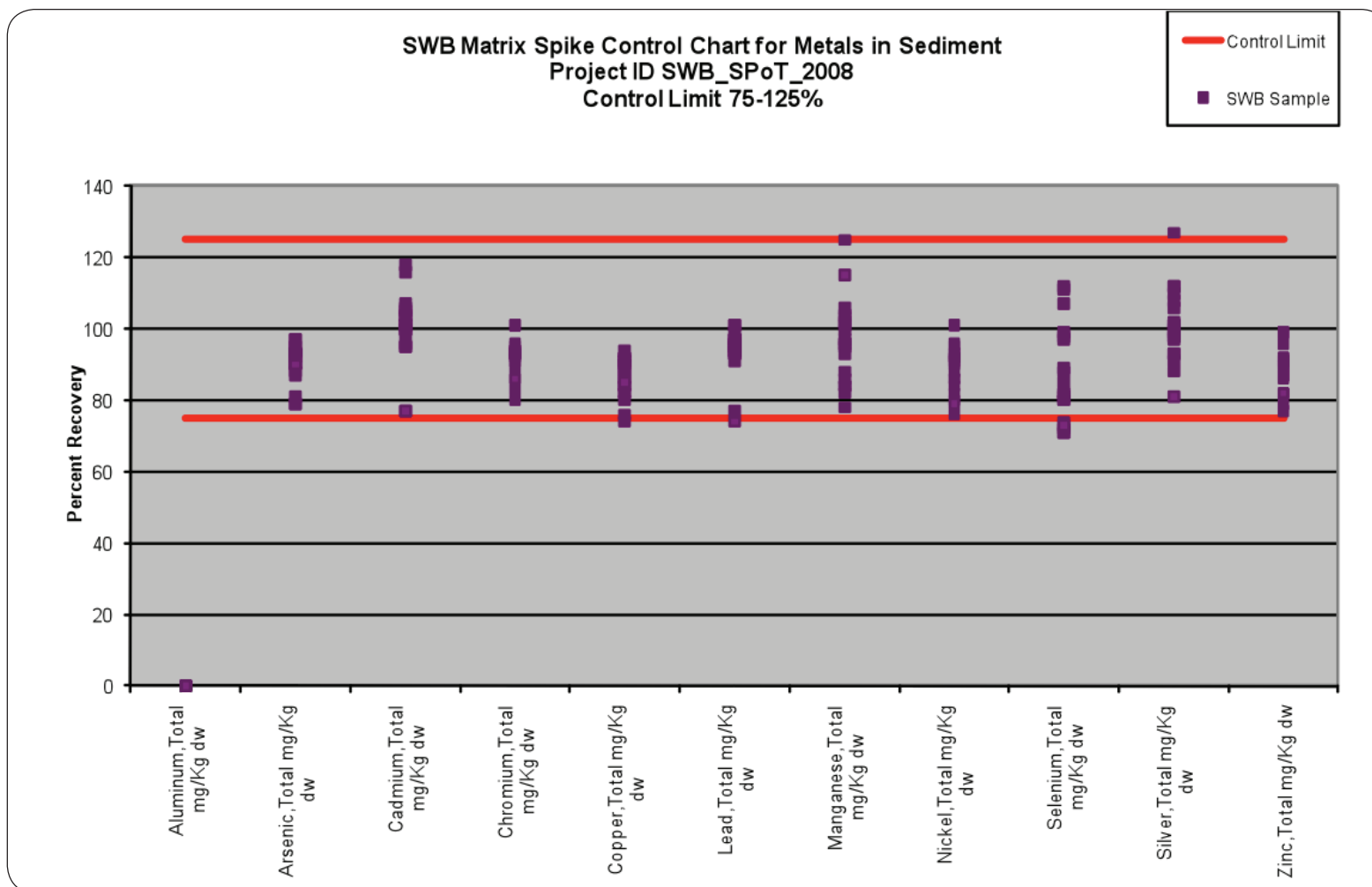


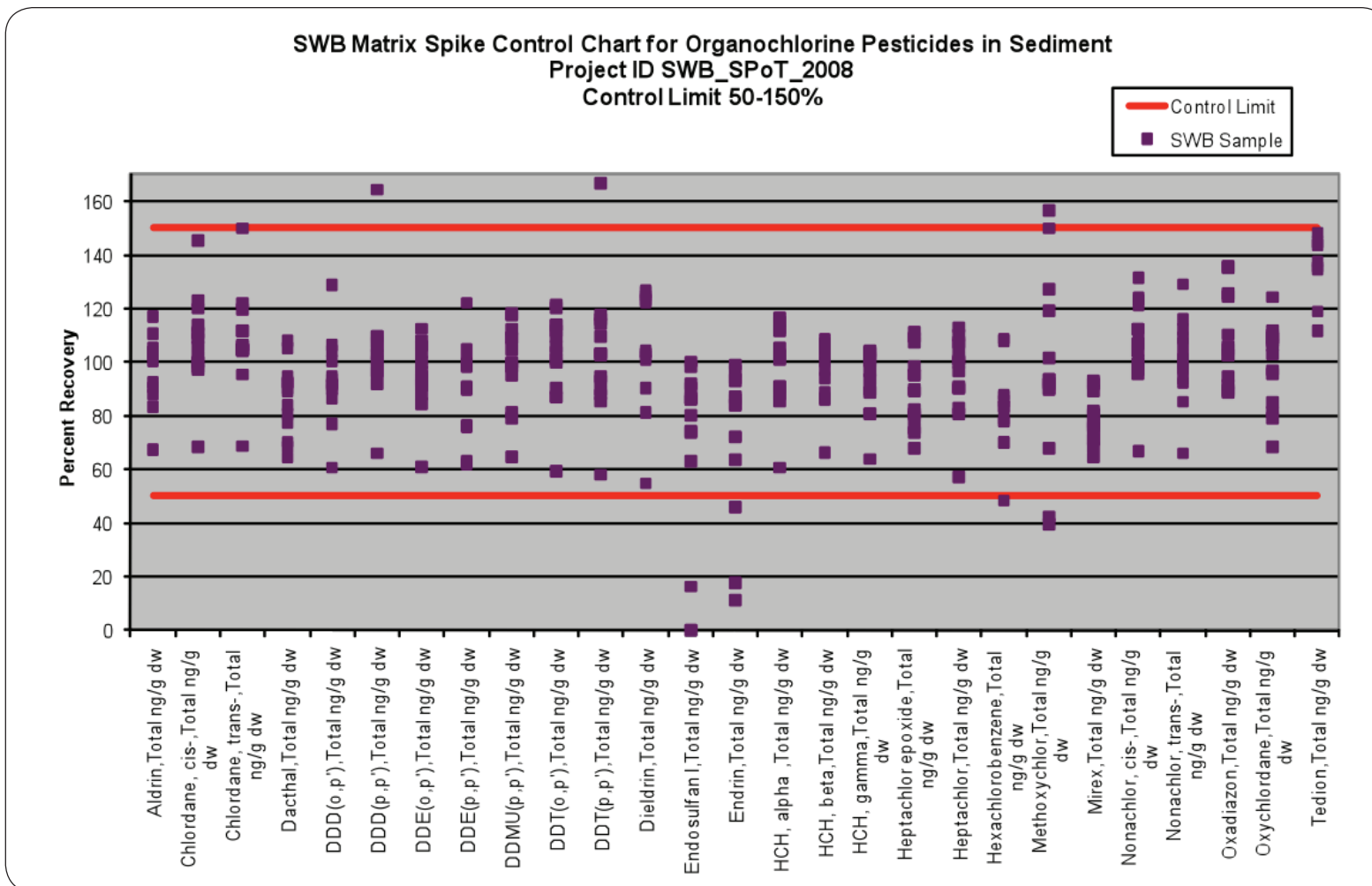




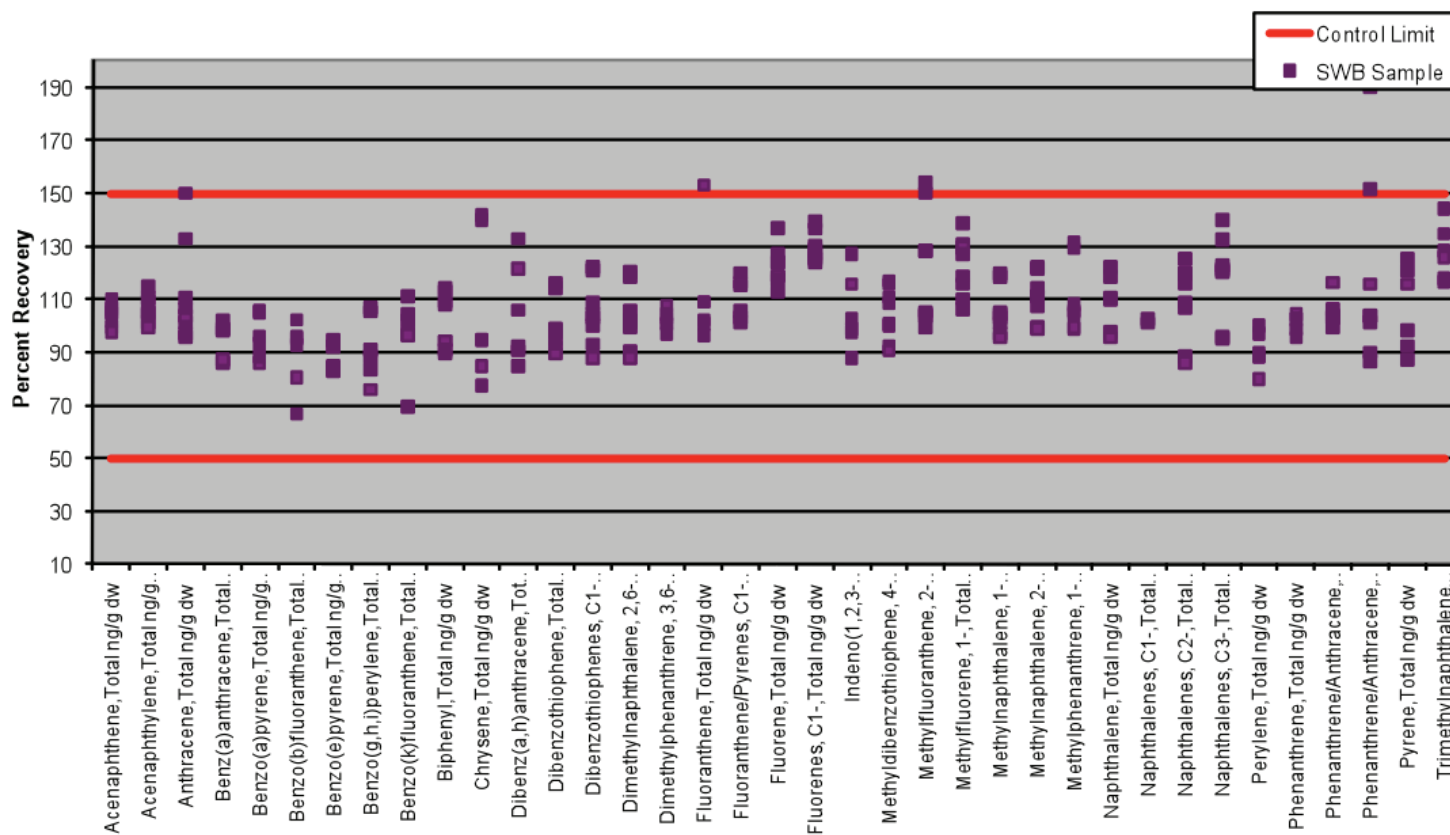




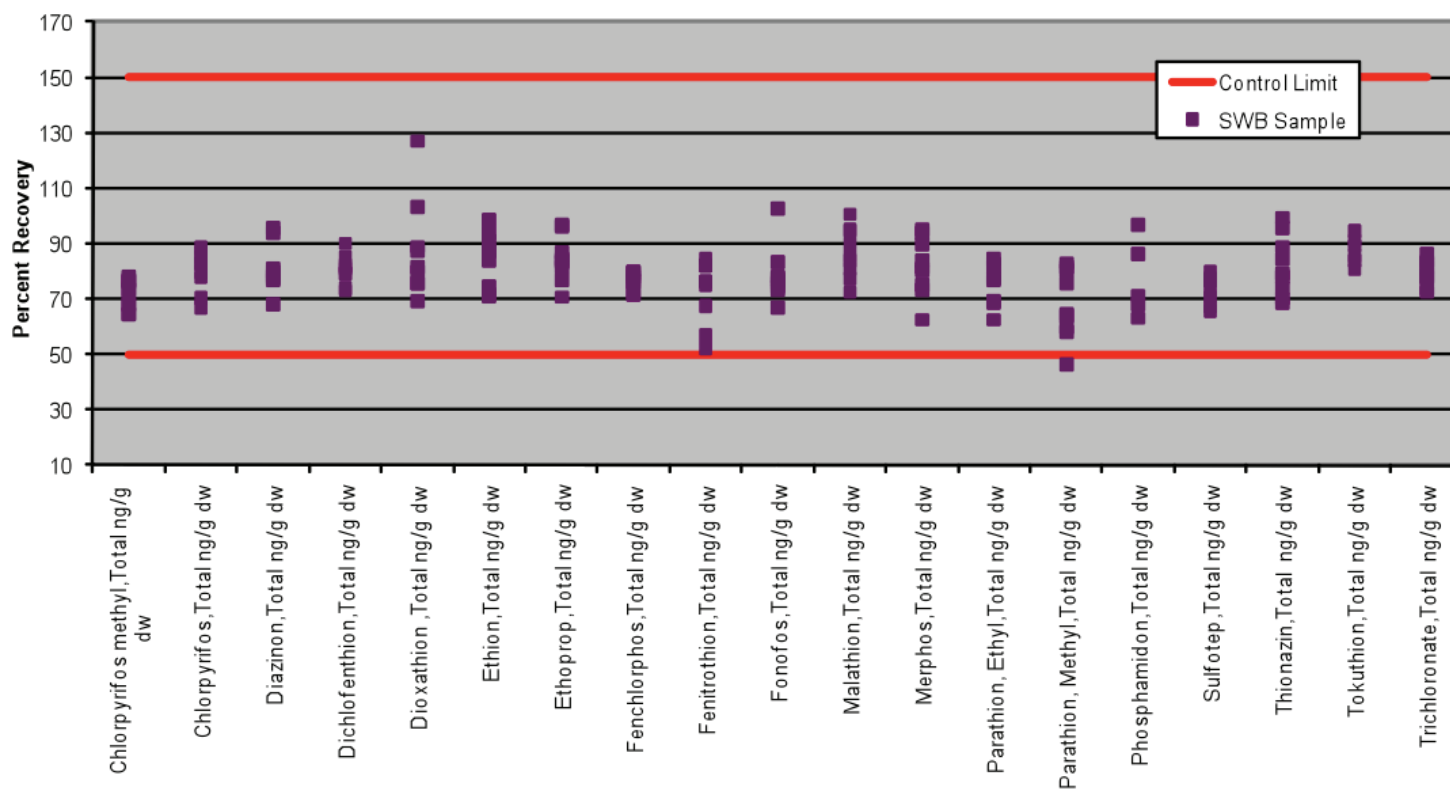




**SWB Matrix Spike Control Chart for Polynuclear Aromatic Hydrocarbons in Sediment**  
 Project ID SWB\_SPoT\_2008  
 Control Limit 50-150%

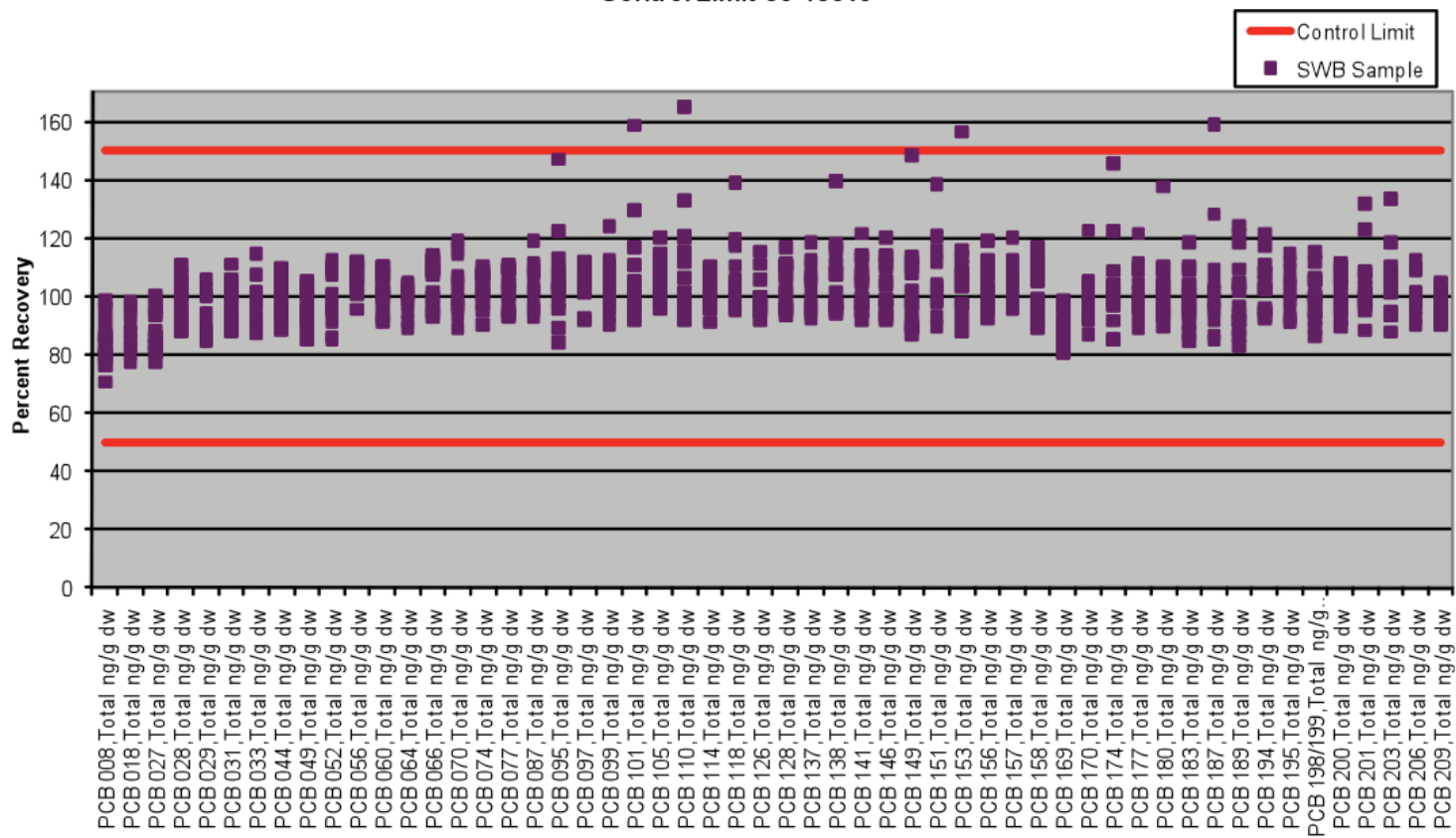


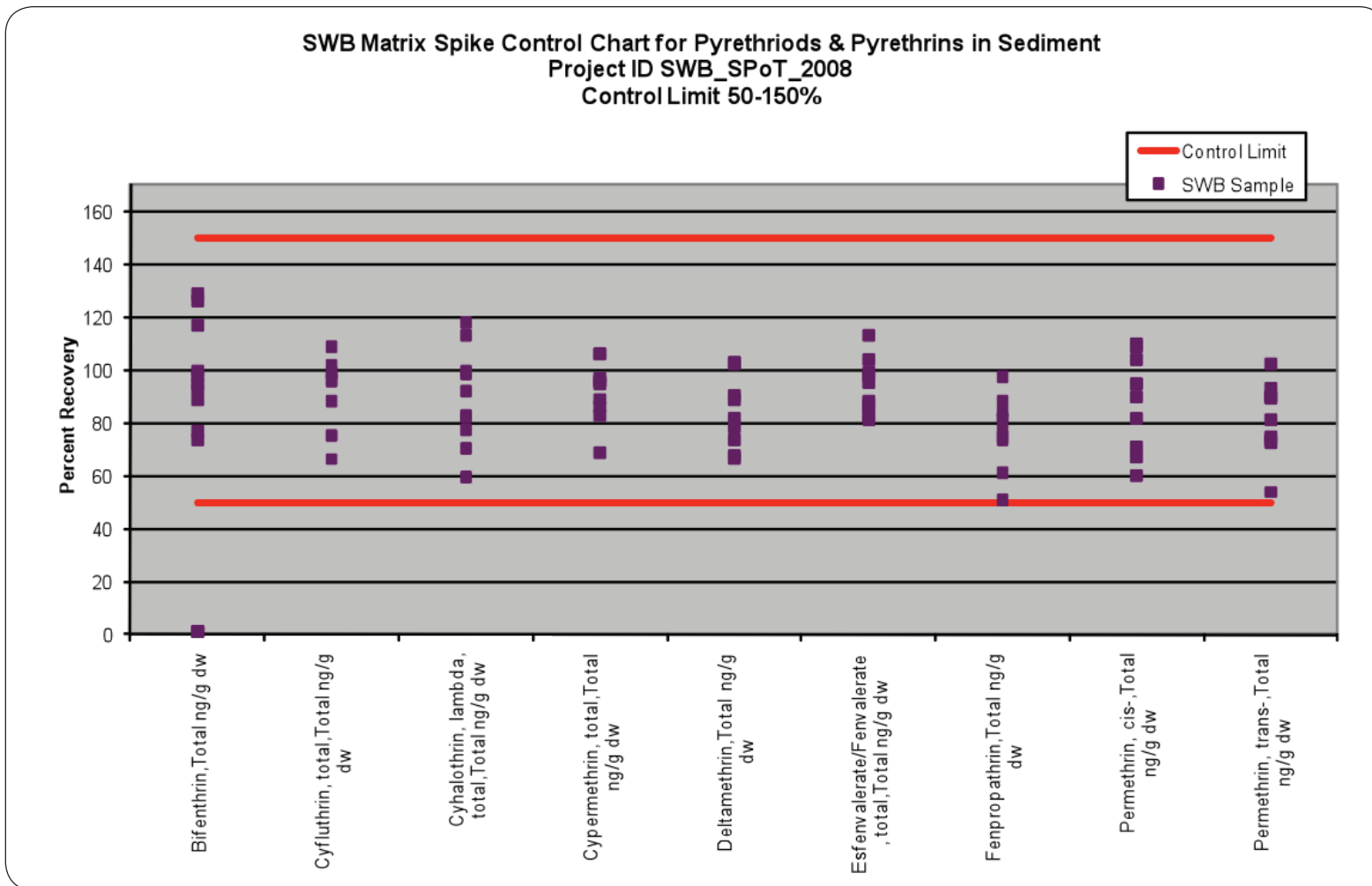
SWB Matrix Spike Control Chart for Organphosphorus Pesticides in Sediment  
 Project ID SWB\_SPoT\_2008  
 Control Limit 50-150%



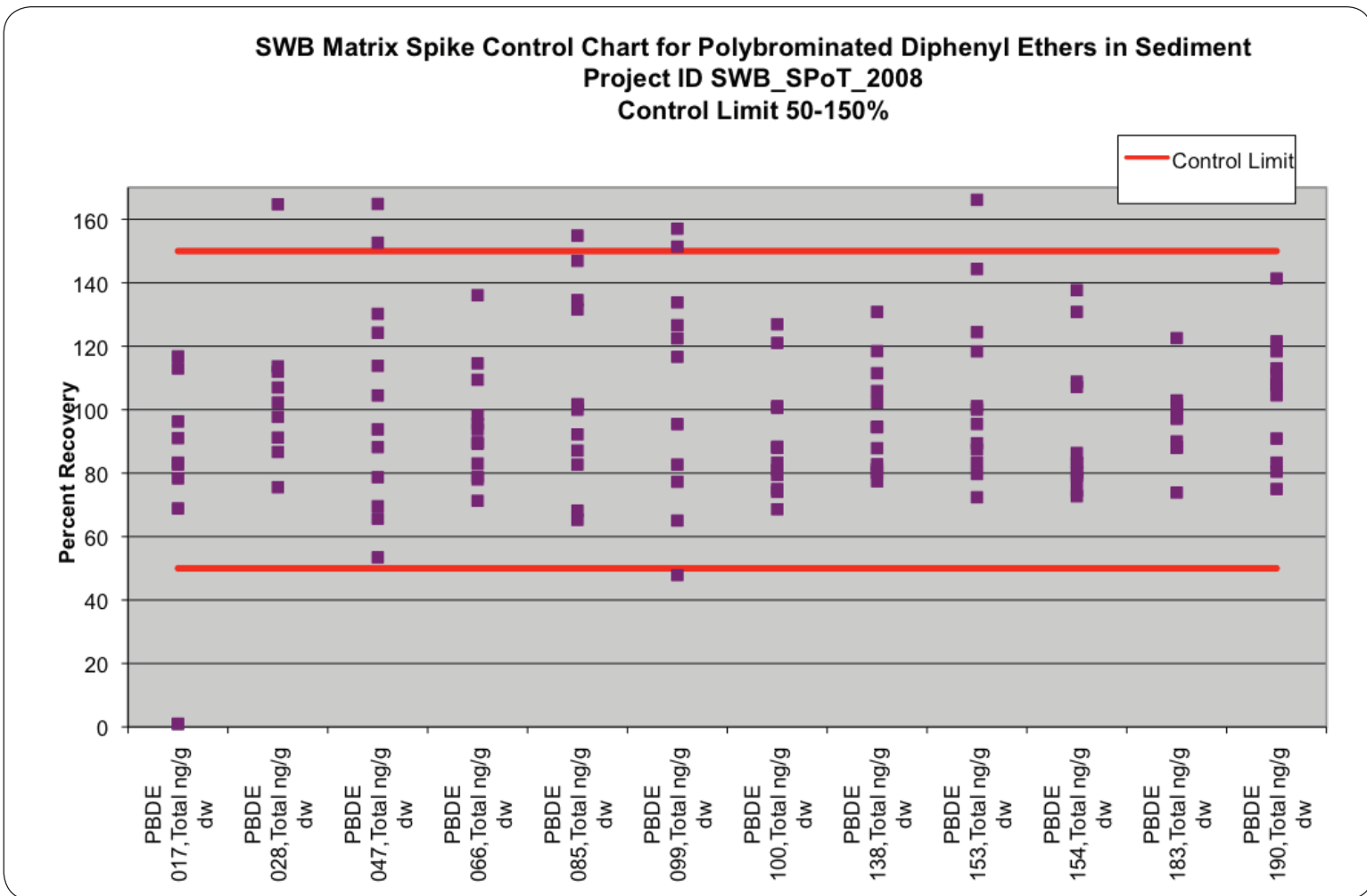


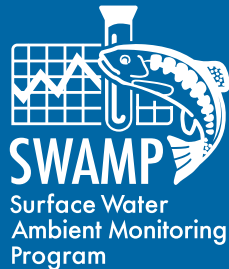
SWB Matrix Spike Control Chart for Polychlorinated Biphenyls in Sediment  
 Project ID SWB\_Trend\_2008  
 Control Limit 50-150%





**SWB Matrix Spike Control Chart for Polybrominated Diphenyl Ethers in Sediment**  
**Project ID SWB\_SPoT\_2008**  
**Control Limit 50-150%**





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