Addendum to Appendix D

SEDIMENT CHEMISTRY DATA PREPARATION

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Introduction

In the Hylebos Habitat Equivalency Analysis (HEA), injury to habitat is calculated into salmon-acre-years based on the acreage and injury level of areas of contamination for each substance of concern (SOC). An integral part of determining areal extent of injury is the spatial analysis of sediment chemistry data for defining injury footprints. This addendum to Appendix D describes the components and procedures used to prepare and combine the sediment chemistry data sets for spatial analysis.

Datasets Used in the Analysis

Three sediment chemistry datasets are used:

1. Results from the 1994 sediment sampling event conducted by NOAA for the Commencement Bay Natural Resource Trustees;
2. The 1994 '1A' and 1B' sampling events sponsored by the Hylebos Cleanup Committee (HCC), and
3. The 1995 '1C' or "Phase II" sediment sampling event also sponsored by the HCC.

Sources of Data

Electronic source files for the three datasets are obtained from two locations.
The HCC 1AB and 1C data are available from the US EPA's Region 10 website: http://yosemite.epa.gov/r10/cleanup.nsf/webpage. Accessing the "CB-NT Factsheets, and Public and Technical Information" option on the webpage provides an avenue to "Marine Sediment Data: Hylebos Waterway Pre-remedial Design Program." Within this data option, the 1A and 1B sediment chemistry database is located in "Data Files and Cruise Reports: Events 1A and 1B—1994" in the file HYLOS1AB.EXE. The 1C database is located in "Event 1C Phase I/II—1995 to 1996" in the file APPEND5A.XLS. **The Trustee data** are available from the NOAA Damage Assessment and Restoration Center NW.

Data Reduction

The intent of using data from all three HCC sampling events and the Trustee survey was to provide a comprehensive dataset for mapping SOC concentrations. However, the Trustee and HCC sediment samples were not always acquired, analyzed and reported identically. Consequently, methods were used to condense the data sets (i.e., remove inappropriate sampling data and unnecessary information in the data files) and modify them so that a correlated set of information was developed.

Several factors were considered in selecting data for inclusion into the sediment chemistry database to be analyzed: sample type, analytical method, multiple results from a single station, and data qualifications. Only results from surface sediment samples were used (i.e., samples from the 0-10cm sediment horizon) although certain types of surface samples were omitted. For the Trustee dataset, information for all reference stations were ignored, and specific

reported results (e.g., metals analysis via total acid digestion) were eliminated. For the HCC data, core samples (stations with the suffix "A" or "B"), matrix spike (MS), and matrix spike duplicates (MSDs) were eliminated as well as most source material intertidal samples (SM suffix). Stations without geospatial coordinates were likewise not used. Also, data from stations that were a re-sampling of Trustee stations were not incorporated into the mapping data set; rather, they were used only for determining correlations between the Trustee and HCC data sets (see Standardization of Data Sets).

The number of contaminants included in the analysis was limited to those SOCs that were reported in at least one sample as containing a concentration that was at or above injury threshold levels identified in Appendix D. Those SOCs are listed in Addendum Table 1.

Further data condensation was accomplished by combining results from the same station. All multiple results from a single station (replicate subsamples or duplicate samples) were collapsed into one value per SOC by taking the mean of the reported samples (Σ of reported concentrations/number of replicates). The resultant mean value was identified by an "M" in the qualification code column. If both "U" qualified and other results were reported at multiple results stations, only the non-"U" qualified results were averaged. If only "U" qualified data were present, the resultant mean value was identified as "UM". A number in parentheses after the "M" represents the number of duplicate samples averaged. No number after the "M" means that only two results were averaged. A list of stations with duplicate/replicate samples appears in AddendumTable 2. All data and station qualifier codes appear in Addendum Table 3.

Standardization of Data

Trustee and HCC sediment samples were not always acquired, analyzed and reported identically. A major difference was the concentrations reported from similar or identical analytical methodologies. This was apparently due to differences in the efficiency of sample extraction and/or surrogate recovery correction (Ann Bailey, EcoChem. Inc. personal communication). A cursory examination of samples collected from very similar locations (i.e., Trustee sampling locations sampled by both the HCC and Trustee teams) shows that for paired samples, the Trustee results were always higher than those reported from the HCC for several groups of SOCs (Addendum Table 4) and on average, Trustee results were highest nearly 80% of the time.

Addendum Table 4.—A comparison of analytical results from sampling locations were both the HCC and Trustee sampled at nearly identical locations in Hylebos Waterway.

SOCs	No. of paired samples with non-"U" qualified data	Freq. of HCC data highest in pair	Freq. of Trustee data highest in pair	Pct. Of Total higher HCC value	Pct. Of Total higher Trustee value
PAHs	11	0	11	--	100%
Metals	87	23	64	26%	74%
Phthalates	26	6	20	23%	77%
Chlorobenzenes	9	0	9	--	100%
HCBD	6	0	6	--	100%
SOCs combined	139	29	110	21%	79%

Addendum Table 1. The list of 33 Substances of Concern potentially included in our analysis.

Contaminant Group	Contaminant Name	Acronym
Chlorobenzenes	1,2-Dichlorobenzene	oDCB
	1,3-Dichlorobenzene	mDCB
	1,4-Dichlorobenzene	pDCB
	1,2,4-Trichlorobenzene	TCB
	Hexachlorobenzene	HCB
DDTs	p,p'DDD or 4,4'DDD	DDD
	p,p'DDE or 4,4'DDE	DDE
	p,p'DDT or 4,4'DDT	DDT
Metals	Antimony	Sb
	Arsenic	As
	Cadmium	Cd
	Chromium	Cr
	Copper	Cu
	Lead	Pb
	Mercury	Hg
	Nickel	Ni
	Silver	Ag
	Tributyltin	TBT
	Zinc	Zn
Phenols	2-Methylphenol[1]	MP2
	4-Methylphenol	MP4
	2,4-Dimethylphenol	DMP
	Pentachlorophenol	PCP
	Phenol	Phenol
Phthalates	bis (2-Ethylhexyl) phthalate	bEPH
	Butylbenzyl phthalate	BBPH
	dimethyl phthalate	DMPH
	Di-n-butyl phthalate	DnBPH
	Di-n-octyl phthalate	DOPH
	Diethyl phthalate	DEPH
Other	Hexachlorobutadiene	HCBD
	Polycyclic Aromatic Hydrocarbons	PAHs
	Polychlorinated Biphenyls	PCBs

Addendum Table 2. Sediment sampling stations where duplicate or replicate samples are used to determine mean SOC concentrations. " " represents stations where more than one sample is incorporated into results.

	HCC Stations										Trustee Stations						
	1101	1201	2108	3104	3106	3108	3201	4109	4208	5107	HY03	HY06	HY14	HY16	HY19	HY24	HY28
Metals																	
Ag			--	--	--									--		--	--
As			--	--	--									--		--	--
Cd			--	--	--									--		--	--
Cr			--	--	--									--		--	--
Cu			--	--	--									--		--	--
Hg			--	--	--									--		--	--
Ni			--	--	--									--		--	--
Pb			--	--	--									--		--	--
Sb			--	--	--									--		--	--
TBT						--	--	--	--				--	--			--
Zn			--	--	--									--		--	--
Phenols																	
MP2			--	--	--		--			--			--			--	
MP4			--	--	--								--			--	
DMP			--	--	--								--			--	
PCP			--	--	--								--			--	
Phenol			--	--	--								--			--	
Phthalates																	
BBPH			--	--	--								--			--	
BEPH			--	--	--								--			--	
DEPH			--	--	--								--			--	
DMPH			--	--	--					--			--			--	
DNBPH	--		--	--	--				--	--			--			--	
DOPH			--	--	--								--			--	
Benzenes																	
TCB			--	--	--							--	--			--	
PDCB			--	--	--								--			--	
ODCB			--	--	--								--			--	
MDCB			--	--	--								--			--	
HCB			--	--	--								--			--	
Others																	
HCBD			--	--	--			--	--				--			--	
DDD			--	--	--			--		--			--			--	
DDE			--	--	--								--			--	
DDT		--	--	--	--			--	--				--			--	
PAHs			--	--	--								--			--	
PCBs			--	--	--								--		--	--	--

Addendum Table 3. Data Qualifier Codes associated with the Trustee and HCC datasets.

J Value is an estimated amount due to noncompliance with established or project-specified criteria in any or all of the following categories:

- exceedance of holding times;
- outside established range of calibration linearities;
- continuing calibration check exceedance;
- internal standard area deviation;
- analytical replicate variability;
- exceedance of Graphite Furnace Atomic Absorption Spectrometry (GFAA) Quality Control (Matrix Spike Addition correlation coefficient deviation);
- Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AEP) serial dilution performance;
- surrogate and Matrix Spike/Matrix Spike Duplicates (MS/MSD) parameter recoveries;
- Laboratory Control Sample (LCS) performance;
- multi-component parameter constituents' variabilities; and/or
- reference material performance.

N Result is based on presumptive evidence generally due to mass spectral matches outside criteria (consequent to low purity matches; coeluting chemical interference). The associated value is considered an estimate.

U Substance is not detected at the associated value. Associated value is a quantitation limit due to any of the following circumstances:

- equivalent level limited by instrument detection limit;
- lowest limit of established calibration;
- lowest limit established by potential bias contributed by blank levels—lowest level distinguishable from analytical background; or
- presence of chemical interferences precludes positive identification of analyte at associated value.

M Concentration is a mean value of either laboratory replicates or field duplicates or splits.

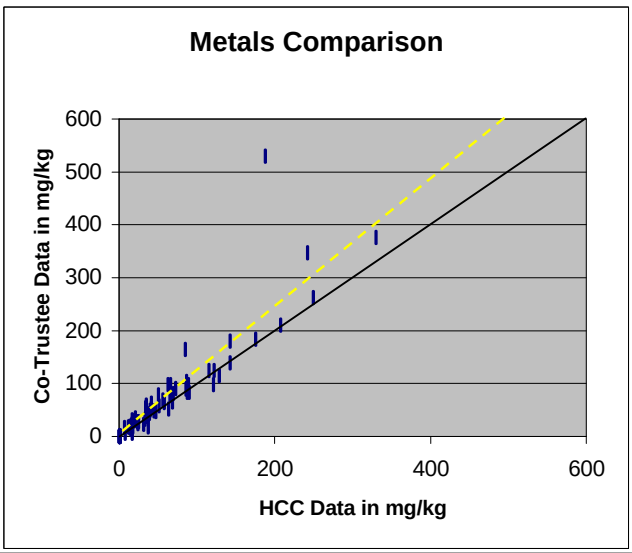
The team that processed the Trustee samples was assembled from the analytical chemistry group at the Environmental Conservation Division of NOAA's Northwest Fisheries Science Center. They were able to expend more effort extracting and preparing samples than the commercial laboratories that processed the HCC samples. Further, the NWFSC chemists corrected analytical results when quality control tests showed less than full recovery of reference material during surrogate recovery analyses. Consequently, we believe that the Trustee analysis produced better data for developing a standard between the datasets.

A correlation analysis was attempted for each SOC to determine similarities between reported results from Trustee and HCC samples, and to derive a "correction factor" to apply to the HCC data to make all data sets comparable. A series of linear regression analyses was performed on data that resulted from sediment sampling at locations occupied by both the Trustee and the HCC sampling teams. Because of a high number of non-detect results in the HCC dataset, the number of paired observations for each SOC varied widely. This situation required that groups of similar SOCs be combined to achieve adequate pairs of reported results for analysis. The groups were: metals, phthalates, phenols, chlorobenzenes, and pesticides (DDT's). HCBD was treated separately, and PAHs and PCBs were handled differently.

The Linear regression analyses were performed using SYSTAT™ software. The multiple R^2 value (i.e., goodness of fit) was used to evaluate the strength of the linear relationship between reported results from the Trustee and HCC datasets. For those groups of SOCs with a relatively high multiple R^2 value (i.e., >0.70) a sensitivity analysis was also conducted to ensure that outlier data points did not exert undue influence on the correlation. This was accomplished by eliminating the most extreme outlier from the paired dataset and re-running the regression analysis to observe changes in the correlation coefficient. Additional outliers were individually eliminated and the regression analysis repeated. We chose the correlation coefficient that resulted from the largest set of paired observations showing no notable increase in goodness of fit over a lesser dataset (fewer pairs).

Correction Factors from Regression Analyses

Metals—Reported concentrations for eight metals (Arsenic, Chromium, Copper, Lead, Mercury, Nickel, Silver and Zinc) were used to determine a correction factor for the HCC dataset. Sensitivity analysis on the omission of one or more outlier data pairs indicates that an appropriate correction factor for HCC metals data is 1.1: all reported values are multiplied by 1.1 for mapping injury footprints for metals.

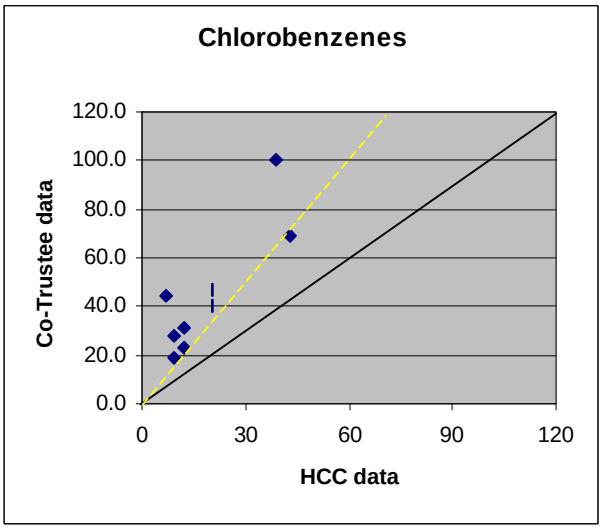


Output from the linear regression analysis of metals data for selected stations from the Trustee and HCC sediment sampling events in Hylebos Waterway, 1994-1995

No. of Pairs	Correction Factor	Standard Error	Standard Coefficient	Correlation Coefficient
82	1.255	0.660	0.906	0.820
81	1.124	0.270	0.978	0.956
79	1.065	0.021	0.985	0.971
78	1.740	0.020	0.987	0.975

Metals Correction Factor = 1.1

Chlorobenzenes—Reported concentrations for 1,2-dichlorobenzene and hexachlorobenzend were used to determine a correction factor for the HCC dataset. Other chlorobenzenes (1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichloro-benzene) had "U" qualified data for all HCC samples. Sensitivity analysis on the omission of one or more outlier data pairs indicates that an appropriate correction factor for HCC chlorobenzene data is 1.7: all reported chlorobenzene values are multiplied by 1.7 for mapping injury footprints.

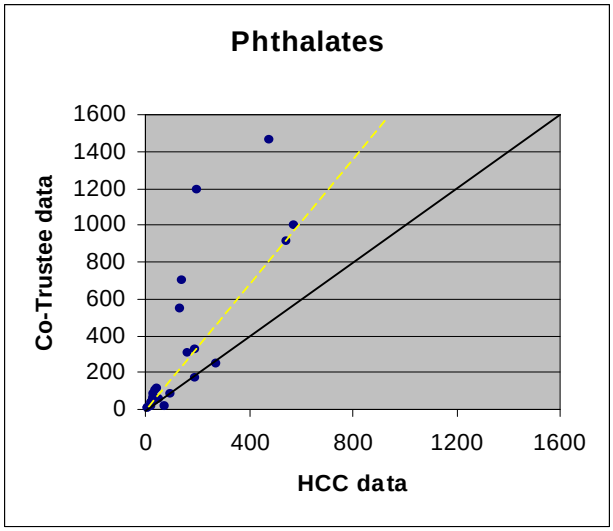


Output from the linear regression analysis of chlorobenzenes data for selected stations from the Trustee and HCC sediment sampling events in Hylebos Waterway, 1994-1995

No. of Pairs	Correction Factor	Standard Error	Standard Coefficient	Correlation Coefficient
9	1.671	0.371	0.862	0.743
8	1.145	0.300	0842	0.708

Chlorobenzene Correction Factor =1.7

Phthalates—Reported concentrations for bis (2-Ethylhexyl) phthalate, butylbenzyl phthalate, and dimethyl phthalate were used to determine a correction factor for the HCC dataset. Other phthalates (di-n-octyl phthalate and di-n-butyl phthalate) had "U" qualified data for all HCC samples. Sensitivity analysis on the omission of one or more outlier data pairs indicates that an appropriate correction factor for HCC phthalates data is 1.7: all reported phthalates values are multiplied by 1.7 for mapping injury footprints.



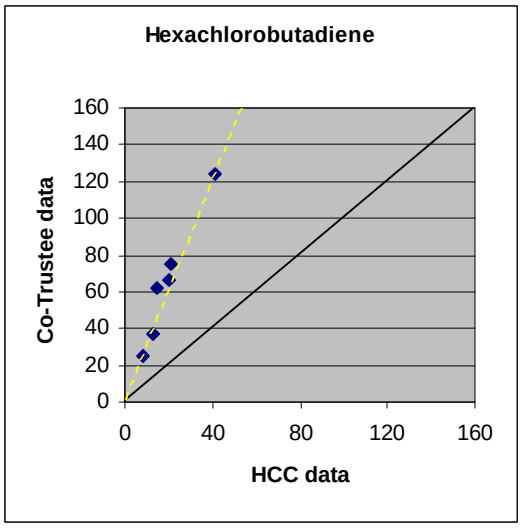
Output from the linear regression analysis of phthalates data for selected stations from the Trustee and HCC sediment sampling events in Hylebos Waterway, 1994-1995

No. of Pairs	Correction Factor	Standard Error	Standard Coefficient	Correlation Coefficient
25	2.029	0.220	0.887	0.787
24	1.680	0.189	0.886	0.785
23	1.667	0.134	0.938	0.880
22	1.657	0.088	0.973	0.946

Phthalates Correction Factor = 1.7

Phenols and Pesticides—Neither of these SOC groups had sufficient data pairs to conduct a regression analysis. The correction factor for both groups was assumed to be 1.0.

Hexachlorobutadiene-- Sensitivity analysis on the omission of one or more outlier data pairs for reported hexachlorobutadiene values indicates that an appropriate correction factor for HCC HCBD data is 3.0: all reported HCBD values are multiplied by 3.0 for mapping injury footprints.



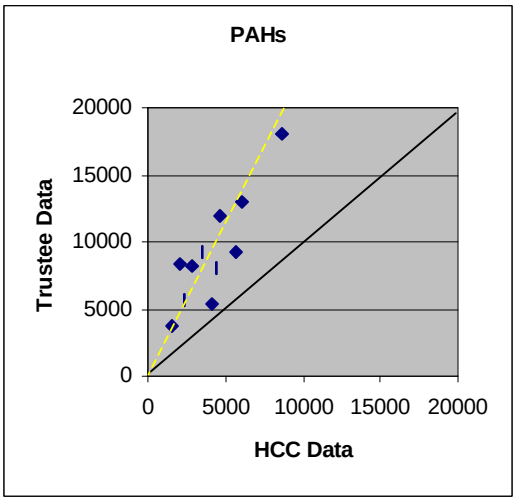
Output from the linear regression analysis of HCBD data for selected stations from the Trustee and HCC sediment sampling events in Hylebos Waterway, 1994-1995

No. of Pairs	Correction Factor	Standard Error	Standard Coefficient	Correlation Coefficient
6	2.931	0.321	0.977	0.954
5	3.027	0.254	0.990	0.979

Hexachlorobutadiene Correction Factor = 3.0

PAHs and PCBs were handled somewhat differently than other groups of SOCs.

Total PAHs--Reported concentrations for 16 indivudual PAHs (Table 7, Appendix D) were combined and analyzed as Total PAHs in each sample. This analysis was part of the initial attempt at NRDA settlement when only PAHs, PCBs and TBT injuries were mapped, and was developed prior to use of the SYSTAT software. A linear regression analysis was performed using techniques described by Draper and Smith 1966[1]. A "0,0" data point was added to force fit the regression through the x-y intercept. All other rules followed in previously described correlation analyses were used. Sensitivity analysis on the omission of one or more outlier data pairs for reported Total PAHs values indicates that an appropriate correction factor for HCC Total PAH data is 2.0: all reported Total PAH values are multiplied by 2.0 for mapping injury footprints.



Output from the linear regression analysis of Total PAH data for selected stations from the Trustee and HCC sediment sampling events in Hylebos Waterway, 1994-1995

No. of Pairs	Correlation Coefficient	Correlation Difference	y- axis Intercept	Correction Factor
12	0.902	--	2255	1.810
11	0.929	0.027	745	1.925
10	0.938	0.009	-378	1.966
9	0.951	0.013	-1248	1.939

Total PAH Correction Factor = 2.0

Total PCBs—Total Polychlorinated Biphenyls in samples from each dataset were determined by different methods. In the HCC dataset, PCBs were analyzed by aroclor, and the results summed for each station. The Trustee data were analyzed for 17 congeners (Table Addendum Table 5) and the sum of the results was multiplied by two to represent Total PCBs. Besides different analytical methods, a comparison of the HCC-Trustee data sets was further complicated by reporting procedures. In the HCC data set, concentrations for most aroclors were only reported as "U" qualified in every sample, with the sum of all aroclors also "U" qualified—a situation that would have resulted in no data pairs for analysis with the Trustee data. A solution was to use only the combined "aroclor 1254" and "aroclor 1260" results in the HCC dataset as a surrogate for total PCBs.

Linear regression analyses were performed on the PCB paired dataset. The correlation coefficient for analysis of all 28 pairs was less than 0.35, and removal of outlier pairs (up to 6) failed to improve the correlation enough to determine a correction factor.

Although linear regression analyses failed to identify a strong correlation between the datasets, a parameter-free statistical analysis was used to further examine the situation. A non-parametric Spearman Rank Correlation Test[2] indicated a statistically significant correlation between the reported PCB values at locations sampled by both the Trustees and HCC. This significant correlation was exhibited both when all pairs of data were used (Addendum Table 6)

[1] Draper, N.R., and H. Smith, 1966. Applied Regression Analysis. John Wiley & Sons, Inc. 605 Third Av., New York, NY 10016

[2] Snedecor, G. W., and W. G. Cochran. 1989. Statistical Methods (8th Edition). Iowa State Univ. Press, Ames, Iowa 50010.

Addendum Table 5. PCB congeners analyzed in the Trustee sediment samples.

Congener No. 18
Congener No. 28
Congener No. 44
Congener No. 52
Congener No. 66
Congener No.101
Congener No.105
Congener No.118
Congener No.128
Congener No.138
Congener No.153
Congener No.170
Congener No.180
Congener No.187
Congener No.195
Congener No.206
Congener No.209

Addendum Table 6. Non-Parametric correlation analysis of PCB data from stations sampled by both the Trustees and HCC.: all data pairs included (n=28).

	Reported Results			Rankings		Difference	Difference^2
Station	Trustee	HCC		Trustee	HCC	d_i	d_i^2
HY-01	94	22		1	2	-1	1
HY-02	330	66		9	4	5	25
HY-03	170	25U		3	1	2	4
HY-04	220	130		4	8	-4	16
HY-05	350	95		10	5	5	25
HY-06	500	230		19	20	-1	1
HY-07	280	350U		7	13	-6	36
HY-08	790M(3)	140		28	9	19	361
HY-09	230	120U		5.5	3	2.5	6.25
HY-10	470	430U		17.5	18	-0.5	0.25
HY-11	390M(3)	170		12	11.5	0.5	0.25
HY-12	410	180		14	14	0	0
HY-13	150	220		2	19	-17	289
HY-14	230	190		5.5	15	-9.5	90.25
HY-15	410	120		14	6.5	7.5	56.25
HY-16	510	280		20.5	23	-2.5	6.25
HY-17	650	4100		27	28	-1	1
HY-18	580	340		23	25	-2	4
HY-19	640	780		26	27	-1	1
HY-20	600	170		24.5	11.5	13	169
HY-21	600M(2)	320		24.5	24	0.5	0.25
HY-22	410	270		14	21.5	-7.5	56.25
HY-23	530	380		22	26	-4	16
HY-24	470M(3)	210		17.5	16.5	1	1
HY-25	510	210		20.5	16.5	4	16
HY-26	450	160		16	10	6	36
HY-27	370	270		11	21.5	-10.5	110.25
HY-28	310	120		8	6.5	1.5	2.25

Test Statistics

Spearman Rank Correlation test statistic = r_s

sum d_i^2 = 1330.5
n = 28
n^2 = 784

$$r_s = 1 \text{ minus } \frac{6\left(\sum_{i=1}^{n} d_i^2\right)}{n(n^2 - 1)}$$

$= 1 - [6(1330.5)/28\ (784 - 1)]$

$= 1 - 7983 / 21924$

$= 0.636$

The correlation is significant if the test statistic,

r_s is greater than $r^{\alpha=0.05}$ with n – 2 deg. of freedom

using Table 10-A in Snedecor & Cochran 1989,
$r^{\alpha=0.05}$ with 26 deg. Of freedom = 0.381

0.636 > 0.381
The correlation is significant.

and when outlier pairs were omitted from the analysis (Addendum Table 7). Based on this indication of correlation, a correction factor was determined through evaluating the ratio of the means for the two datasets. The most appropriate correction factor, 1.7, was derived by determining the means for the HCC and Trustee PCB data for all pairs where the difference between reported results at a station was less than a factor of 4 (Addendum Table 8).

Addendum Table 8. Information used to determine a correction factor for Total PCB values for the HCC dataset.

Stations Omitted	No's of Pairs	Mean PCB value for Trustee Data (ppb dw)	Mean PCB value for HCC Data (ppb dw)	Ratio HCC:Trustee
HY-17	27	407.6	222.1	1.835
HY-17 & 03	26	416.7	229.7	1.814
HY-17, 03, and 08	25	401.8	233.2	1.723
HY-17, 03, 08, & 02	24	404.8	240.2	1.685
HY-17, 03, 08, 02, & 01	23	419.2	249.7	1.675

Reported Total PCB values in the comparison dataset ranged between 22 ppb and 790 ppb (Station HY-17 omitted); however, concentrations in the mapped datasets ranged as high as 44,500 ppb. We chose to use the correction factor only for those reported values within a factor of two for the comparison data set (i.e., reported values up to 1,500 ppb). No correction factor was applied to any reported concentrations greater than 1,500 ppb.

Presentation of Mapped Data

The following tables display pertinent information on each data point for each SOC mapped. Information includes: a Survey identifier, Station No., Field I.D. or Sample No., Type of Station, Reported Concentration, Data Qualifiers, Correction Factor, the Adjusted Concentration and the log normal transformation of that Concentration, and the Injury Level associated with the station. All stations are listed for each SOC by decending concentration. The initial injury threshold concentration for each SOC is shown in each table's title. Information on additional injury thresholds for each SOC is found in Table 10 of the main body of Appendix D.

Addendum Table 7. -Non-Parametric correlation analysis of PCB data from a subset of stations sampled by both the Trustees and HCC. [Stations with extreme differences between paired results (ratio >5.0) are omitted: n=24]

	Reported Results			Ranking		Difference	Difference^2
Station	Trustee	HCC		Trustee	HCC	d_i	d_i^2
HY-01	94	22		1	1	0	0
HY-04	220	130		3	6	-3	9
HY-05	350	95		8	2	6	36
HY-06	500	230		17	15	2	4
HY-07	280	350U		6	21	-15	225
HY-09	230	120U		4.5	4	0.5	0.25
HY-10	470	430U		15.5	23	-7.5	56.25
HY-11	390M(3)	170		10	8.5	1.5	2.25
HY-12	410	180		12	10	2	4
HY-13	150	220		2	14	-12	144
HY-14	230	190		4.5	11	-6.5	42.25
HY-15	410	120		12	4	8	64
HY-16	510	280		18.5	18	0.5	0.25
HY-18	580	340		21	20	1	1
HY-19	640	780		24	24	0	0
HY-20	600	170		22.5	8.5	14	196
HY-21	600M(2)	320		22.5	19	3.5	12.25
HY-22	410	270		12	16.5	-4.5	20.25
HY-23	530	380		20	22	-2	4
HY-24	470M(3)	210		15.5	12.5	3	9
HY-25	510	210		18.5	12.5	6	36
HY-26	450	160		14	7	7	49
HY-27	370	270		9	16.5	-7.5	56.25
HY-28	310	120		7	4	3	9

Test Statistics

Spearman Rank Correlation test statistic = r_s

$$r_s = 1 - \frac{6\left(\sum_{i=1}^{n} d_i^2\right)}{n(n^2 - 1)}$$

$= 1 - [6(980)/24\,(576 - 1)]$

$= 1 - 5880 / 13800$

$= 0.574$

sum d_i^2= 980
n = 24
n^2= 576

The correlation is significant if the test statistic,

r_s is greater than $r^{a=0.05}$ with n – 2 deg. of freedom

using Table 10-A in Snedecor & Cochran 1989,
$r^{a=0.05}$ with 24 degrees of freedom = 0.423

0.574 > 0.423
The correlation is significant.

Table D-1. Sampling data used to map injury footprints for Silver (Ag) in Hylebos Waterway. Injury threshold = 3 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	4207	4207I	intertidal	3	6.0		6000.0	1.1	6,600.0	8.795	15%
2	HCC-1B	2202	2202I	intertidal	2	3.9		3900.0	1.1	4,290.0	8.364	10%
3	HCC-1B	5213	5213I	intertidal	4	3.4		3400.0	1.1	3,740.0	8.227	10%
4	HCC-1B	3214	3214I	intertidal	2	2.5		2500.0	1.1	2,750.0	7.919	--
5	HCC-1C	4118	4118 S	subtidal	1	2.2		2200.0	1.1	2,420.0	7.792	--
6	HCC-1B	1217	1217I	intertidal	5	1.4		1400.0	1.1	1,540.0	7.340	--
7	HCC-1B	4205	4205I	intertidal	3	0.98		980.0	1.1	1,078.0	6.983	--
8	HCC-1B	1216	1216I	intertidal	3	0.97		970.0	1.1	1,067.0	6.973	--
9	HCC-1C	5215	5215 I	intertidal	2	0.96	J	960.0	1.1	1,056.0	6.962	--
10	HCC-1B	5203	5203I	intertidal	2	0.93		930.0	1.1	1,023.0	6.930	--
11	HCC-1B	5201	5201I	intertidal	2	0.92		920.0	1.1	1,012.0	6.920	--
12	HCC-1C	2112	2112 S	subtidal	1	0.83		830.0	1.1	913.0	6.817	--
13	HCC-1B	3221	3221I	intertidal	3	0.77		770.0	1.1	847.0	6.742	--
14	HCC-1A	1102	1102S	subtidal	1	0.72		720.0	1.1	792.0	6.675	--
15	HCC-1B	5206	5206I	intertidal	2	0.67		670.0	1.1	737.0	6.603	--
16	HCC-1B	5202	5202I	intertidal	6	0.66		660.0	1.1	726.0	6.588	--
17	HCC-1B	5210		intertidal	2	0.63		630.0	1.1	693.0	6.541	--
18	HCC-1A	2102	2102S	subtidal	1	0.60		600.0	1.1	660.0	6.492	--
19	HCC-1A	2104	2104S	subtidal	1	0.60		600.0	1.1	660.0	6.492	--
20	HCC-1A	5114	5114S	subtidal	1	0.60		600.0	1.1	660.0	6.492	--
21	HCC-1B	5211	5211I	intertidal	2	0.60		600.0	1.1	660.0	6.492	--
22	HCC-1A	2105	2105S	subtidal	1	0.59		590.0	1.1	649.0	6.475	--
23	HCC-1C	4120	4120 S	subtidal	1	0.56		560.0	1.1	616.0	6.423	--
24	HCC-1B	3210	3210I	intertidal	2	0.53		530.0	1.1	583.0	6.368	--
25	HCC-1A	1107	1107S	subtidal	1	0.51		510.0	1.1	561.0	6.330	--
26	HCC-1C	1117	1117 S	subtidal	1	0.51		510.0	1.1	561.0	6.330	--
27	HCC-1A	1103	1103S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
28	HCC-1A	1106	1106S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
29	HCC-1A	1110	1110S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
30	HCC-1A	1111	1111S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
31	HCC-1A	2101	2101S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
32	HCC-1A	2103	2103S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
33	HCC-1A	2110	2110S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
34	HCC-1A	3105	3105S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
35	HCC-1A	3106	3106S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
36	HCC-1A	5101	5101S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
37	HCC-1A	5115	5115S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
38	HCC-1A	5116	5116S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
39	HCC-1A	4109		subtidal	1	0.488	M(4)	487.5	1.1	536.3	6.285	--
40	HCC-1A	2107	2107S	subtidal	1	0.48		480.0	1.1	528.0	6.269	--
41	Co-Trustee	HY-20	130	subtidal	1	0.507		507.0	1.0	507.0	6.229	--
42	HCC-1C	1124	1124 S	subtidal	1	0.46		460.0	1.1	506.0	6.227	--
43	HCC-1B	5205	5205I	intertidal	2	0.44		440.0	1.1	484.0	6.182	--
44	Co-Trustee	HY-18	77	subtidal	1	0.481		481.0	1.0	481.0	6.176	--
45	Co-Trustee	HY-10	338	subtidal	1	0.473		473.1	1.0	473.1	6.159	--
46	HCC-1A	1105	1105S	subtidal	1	0.43		430.0	1.1	473.0	6.159	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-1. Sampling data used to map injury footprints for Silver (Ag) in Hylebos Waterway. Injury threshold = 3 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	Co-Trustee	HY-15	33	subtidal	1	0.465		465.0	1.0	465.0	6.142	--
48	HCC-1B	2211	2211I	intertidal	2	0.42		420.0	1.1	462.0	6.136	--
49	HCC-1B	4209	4209I	intertidal	2	0.42		420.0	1.1	462.0	6.136	--
50	Co-Trustee	HY-03	428	subtidal	1	0.461	M	461.0	1.0	461.0	6.133	--
51	Co-Trustee	HY-21	141	subtidal	1	0.461		461.0	1.0	461.0	6.133	--
52	Co-Trustee	HY-26	222	subtidal	1	0.460		460.0	1.0	460.0	6.131	--
53	Co-Trustee	HY-19		subtidal	1	0.454	M(3)	454.0	1.0	454.0	6.118	--
54	HCC-1C	5120	5120 S	subtidal	1	0.41		410.0	1.1	451.0	6.111	--
55	Co-Trustee	HY-16	43	subtidal	1	0.449		449.0	1.0	449.0	6.107	--
56	HCC-1A	1113	1113S	subtidal	1	0.40		400.0	1.1	440.0	6.087	--
57	HCC-1A	2111	2111S	subtidal	1	0.40		400.0	1.1	440.0	6.087	--
58	HCC-1C	3110	3110 S	subtidal	1	0.40		400.0	1.1	440.0	6.087	--
59	HCC-1A	4107	4107S	subtidal	1	0.40		400.0	1.1	440.0	6.087	--
60	HCC-1A	4115	4115S	subtidal	1	0.40		400.0	1.1	440.0	6.087	--
61	HCC-1A	5107		subtidal	1	0.40	M(2)	400.0	1.1	440.0	6.087	--
62	Co-Trustee	HY-28	270	subtidal	1	0.438		438.0	1.0	438.0	6.082	--
63	HCC-1A	1101		subtidal	1	0.39	M(4)	390.0	1.1	429.0	6.061	--
64	Co-Trustee	HY-12	279	subtidal	1	0.424		424.0	1.0	424.0	6.050	--
65	HCC-1A	2108	2108S	subtidal	1	0.38		380.0	1.1	418.0	6.035	--
66	HCC-1C	4119	4119 S	subtidal	1	0.38		380.0	1.1	418.0	6.035	--
67	Co-Trustee	HY-05	383	subtidal	1	0.416		416.0	1.0	416.0	6.031	--
68	HCC-1B	2212	2212I	intertidal	3	0.37		370.0	1.1	407.0	6.009	--
69	Co-Trustee	HY-09	350	subtidal	1	0.399		399.0	1.0	399.0	5.989	--
70	Co-Trustee	HY-25	207	subtidal	1	0.399		399.0	1.0	399.0	5.989	--
71	HCC-1A	1108	1108S	subtidal	1	0.36		360.0	1.1	396.0	5.981	--
72	HCC-1A	2106	2106S	subtidal	1	0.36		360.0	1.1	396.0	5.981	--
73	Co-Trustee	HY-04	418	subtidal	1	0.396		396.0	1.0	396.0	5.981	--
74	Co-Trustee	HY-11	297	subtidal	1	0.391		391.0	1.0	391.0	5.969	--
75	HCC-1A	1104	1104S	subtidal	1	0.35		350.0	1.1	385.0	5.953	--
76	HCC-1C	1133	1133 S	subtidal	1	0.35		350.0	1.1	385.0	5.953	--
77	HCC-1C	3107	3107 S	subtidal	1	0.35		350.0	1.1	385.0	5.953	--
78	HCC-1A	4106	4106S	subtidal	1	0.35		350.0	1.1	385.0	5.953	--
79	HCC-1A	2109	2109S	subtidal	1	0.33		330.0	1.1	363.0	5.894	--
80	HCC-1C	2114	2114 S	subtidal	1	0.33		330.0	1.1	363.0	5.894	--
81	Co-Trustee	HY-06		subtidal	1	0.363	M(3)	363.0	1.0	363.0	5.894	--
82	Co-Trustee	HY-23	176	subtidal	1	0.356		356.0	1.0	356.0	5.875	--
83	HCC-1C	1121	1121 S	subtidal	1	0.32		320.0	1.1	352.0	5.864	--
84	HCC-1B	5208	5208I	intertidal	2	0.32		320.0	1.1	352.0	5.864	--
85	Co-Trustee	HY-24	194	subtidal	1	0.352		352.0	1.0	352.0	5.864	--
86	HCC-1C	5121	5121 S	subtidal	1	0.31		310.0	1.1	341.0	5.832	--
87	Co-Trustee	HY-22	159	subtidal	1	0.341		341.0	1.0	341.0	5.832	--
88	Co-Trustee	HY-08	318	subtidal	1	0.334		334.0	1.0	334.0	5.811	--
89	HCC-1A	1112	1112S	subtidal	1	0.30		300.0	1.1	330.0	5.799	--
90	HCC-1A	3104	3104S	subtidal	1	0.30		300.0	1.1	330.0	5.799	--
91	HCC-1B	4204	4204I	intertidal	4	0.30		300.0	1.1	330.0	5.799	--
92	HCC-1A	5113	5113S	subtidal	1	0.30		300.0	1.1	330.0	5.799	--
93	Co-Trustee	HY-02	442	subtidal	1	0.325		325.0	1.0	325.0	5.784	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-1. Sampling data used to map injury footprints for Silver (Ag) in Hylebos Waterway. Injury threshold = 3 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
94	HCC-1C	3112	3112 S	subtidal	1	0.29		290.0	1.1	319.0	5.765	--
95	Co-Trustee	HY-07	351	subtidal	1	0.315		315.0	1.0	315.0	5.753	--
96	HCC-1B	1208	1208I	intertidal	2	0.28		280.0	1.1	308.0	5.730	--
97	HCC-1C	2115	2115 S	subtidal	1	0.28		280.0	1.1	308.0	5.730	--
98	HCC-1B	3206	3206I	intertidal	3	0.27		270.0	1.1	297.0	5.694	--
99	HCC-1C	1125	1125 S	subtidal	1	0.26		260.0	1.1	286.0	5.656	--
100	HCC-1C	3109	3109 S	subtidal	1	0.26		260.0	1.1	286.0	5.656	--
101	HCC-1A	1109	1109S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
102	HCC-1C	1122	1122 S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
103	Co-Trustee	HY-01	455	subtidal	1	0.269		269.0	1.0	269.0	5.595	--
104	HCC-1B	4208	4208I	intertidal	3	0.2	M(4)	237.5	1.1	261.3	5.565	--
105	Co-Trustee	HY-27	243	subtidal	1	0.257		257.0	1.0	257.0	5.549	--
106	HCC-1B	1212	1212I	intertidal	2	0.23		230.0	1.1	253.0	5.533	--
107	Co-Trustee	HY-14		subtidal	1	0.243	M	243.0	1.0	243.0	5.493	--
108	HCC-1B	2214	2214I	intertidal	2	0.22		220.0	1.1	242.0	5.489	--
109	HCC-1B	2209	2209I	intertidal	2	0.21		210.0	1.1	231.0	5.442	--
110	HCC-1B	5209	5209I	intertidal	5	0.20		200.0	1.1	220.0	5.394	--
111	HCC-1B	1201		intertidal	2	0.19	M(3)	190.0	1.1	209.0	5.342	--
112	HCC-1B	2206	2206I	intertidal	6	0.19		190.0	1.1	209.0	5.342	--
113	HCC-1B	2210	2210I	intertidal	5	0.18		180.0	1.1	198.0	5.288	--
114	HCC-1A	4108	4108S	subtidal	1	0.18		180.0	1.1	198.0	5.288	--
115	Co-Trustee	HY-13	10	subtidal	1	0.198		198.0	1.0	198.0	5.288	--
116	HCC-1B	3204	3204I	intertidal	3	0.17		170.0	1.1	187.0	5.231	--
117	HCC-1B	3215	3215I	intertidal	2	0.17		170.0	1.1	187.0	5.231	--
118	HCC-1B	1207	1207I	intertidal	2	0.16		160.0	1.1	176.0	5.170	--
119	HCC-1C	4117	4117 S	subtidal	1	0.16		160.0	1.1	176.0	5.170	--
120	HCC-1A	4105	4105S	subtidal	1	0.15		150.0	1.1	165.0	5.106	--
121	HCC-1B	4210	4210I	intertidal	3	0.15		150.0	1.1	165.0	5.106	--
122	HCC-1C	1120	1120 S	subtidal	1	0.14		140.0	1.1	154.0	5.037	--
123	HCC-1C	1126	1126 S	subtidal	1	0.14		140.0	1.1	154.0	5.037	--
124	HCC-1B	2208	2208I	intertidal	2	0.13		130.0	1.1	143.0	4.963	--
125	HCC-1B	3211	3211I	intertidal	4	0.13		130.0	1.1	143.0	4.963	--
126	HCC-1B	4206	4206I	intertidal	3	0.13		130.0	1.1	143.0	4.963	--
127	HCC-1B	1213	1213I	intertidal	4	0.12		120.0	1.1	132.0	4.883	--
128	HCC-1B	2205	2205I	intertidal	3	0.12		120.0	1.1	132.0	4.883	--
129	HCC-1B	5207	5207I	intertidal	2	0.12		120.0	1.1	132.0	4.883	--
130	HCC-1B	3212	3212I	intertidal	2	0.11		110.0	1.1	121.0	4.796	--
131	Co-Trustee	HY-17	61	subtidal	1	0.112		112.0	1.0	112.0	4.718	--
132	HCC-1C	2113	2113 S	subtidal	1	0.10		100.0	1.1	110.0	4.700	--
133	HCC-1B	2215	2215I	intertidal	7	0.10		100.0	1.1	110.0	4.700	--
134	HCC-1A	3102	3102S	subtidal	1	0.20	U	100.0	1.1	110.0	4.700	--
135	HCC-1A	3103	3103S	subtidal	1	0.20	U	100.0	1.1	110.0	4.700	--
136	HCC-1B	3209	3209I	intertidal	3	0.10		100.0	1.1	110.0	4.700	--
137	HCC-1B	3216	3216I	intertidal	3	0.10		100.0	1.1	110.0	4.700	--
138	HCC-1C	1119	1119 S	subtidal	1	0.09		90.0	1.1	99.0	4.595	--
139	HCC-1B	1206	1206I	intertidal	4	0.09		90.0	1.1	99.0	4.595	--
140	HCC-1B	3205	3205I	intertidal	2	0.09		90.0	1.1	99.0	4.595	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-1. Sampling data used to map injury footprints for Silver (Ag) in Hylebos Waterway. Injury threshold = 3 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
141	HCC-1B	3217	3217I	intertidal	2	0.09		90.0	1.1	99.0	4.595	--
142	HCC-1A	5111	5111S	subtidal	1	0.17	U	85.0	1.1	93.5	4.538	--
143	HCC-1C	1118	1118 S	subtidal	1	0.08		80.0	1.1	88.0	4.477	--
144	HCC-1B	1203	1203I	intertidal	7	0.08		80.0	1.1	88.0	4.477	--
145	HCC-1B	2204	2204I	intertidal	4	0.08		80.0	1.1	88.0	4.477	--
146	HCC-1B	4201	4201I	intertidal	4	0.08		80.0	1.1	88.0	4.477	--
147	HCC-1A	5112	5112S	subtidal	1	0.16	U	80.0	1.1	88.0	4.477	--
148	HCC-1A	4110	4110S	subtidal	1	0.15	U	75.0	1.1	82.5	4.413	--
149	HCC-1A	5110	5110S	subtidal	1	0.15	U	75.0	1.1	82.5	4.413	--
150	HCC-1A	3101	3101S	subtidal	1	0.14	U	70.0	1.1	77.0	4.344	--
151	HCC-1B	3213	3213I	intertidal	2	0.07		70.0	1.1	77.0	4.344	--
152	HCC-1C	4116	4116 S	subtidal	1	0.07		70.0	1.1	77.0	4.344	--
153	HCC-1B	5212	5212I	intertidal	6	0.07		70.0	1.1	77.0	4.344	--
154	HCC-1B	5214	5214I	intertidal	6	0.07		70.0	1.1	77.0	4.344	--
155	HCC-1A	5103	5103S	subtidal	1	0.13	U	65.0	1.1	71.5	4.270	--
156	HCC-1A	5108	5108S	subtidal	1	0.13	U	65.0	1.1	71.5	4.270	--
157	HCC-1A	4103	4103S	subtidal	1	0.12	U	60.0	1.1	66.0	4.190	--
158	HCC-1A	4104	4104S	subtidal	1	0.12	U	60.0	1.1	66.0	4.190	--
159	HCC-1A	4111	4111S	subtidal	1	0.12	U	60.0	1.1	66.0	4.190	--
160	HCC-1A	5109	5109S	subtidal	1	0.12	U	60.0	1.1	66.0	4.190	--
161	HCC-1A	5104	5104S	subtidal	1	0.11	U	55.0	1.1	60.5	4.103	--
162	HCC-1A	5106	5106S	subtidal	1	0.11	U	55.0	1.1	60.5	4.103	--
163	HCC-1A	5102	5102S	subtidal	1	0.09	U	45.0	1.1	49.5	3.902	--
164	HCC-1C	1123	1123 S	subtidal	1	0.04		40.0	1.1	44.0	3.784	--
165	HCC-1B	3201		intertidal	4	0.075	UM(4)	37.5	1.1	41.3	3.720	--
166	HCC-1B	1214	1214I	intertidal	3	0.07	U	35.0	1.1	38.5	3.651	--
167	HCC-1B	2207	2207I	intertidal	2	0.07	U	35.0	1.1	38.5	3.651	--
168	HCC-1B	2213	2213I	intertidal	4	0.07	U	35.0	1.1	38.5	3.651	--
169	HCC-1B	3207	3207I	intertidal	2	0.07	U	35.0	1.1	38.5	3.651	--
170	HCC-1A	4101	4101S	subtidal	1	0.07	U	35.0	1.1	38.5	3.651	--
171	HCC-1B	4203	4203I	intertidal	2	0.07	U	35.0	1.1	38.5	3.651	--
172	HCC-1A	5105	5105S	subtidal	1	0.07	U	35.0	1.1	38.5	3.651	--
173	HCC-1B	1202	1202I	intertidal	4	0.06	U	30.0	1.1	33.0	3.497	--
174	HCC-1B	1204	1204I	intertidal	4	0.06	U	30.0	1.1	33.0	3.497	--
175	HCC-1B	1209	1209I	intertidal	3	0.06	U	30.0	1.1	33.0	3.497	--
176	HCC-1B	1210	1210I	intertidal	2	0.06	U	30.0	1.1	33.0	3.497	--
177	HCC-1B	1211	1211I	intertidal	2	0.06	U	30.0	1.1	33.0	3.497	--
178	HCC-1B	1215	1215I	intertidal	4	0.06	U	30.0	1.1	33.0	3.497	--
179	HCC-1B	3203	3203I	intertidal	2	0.06	U	30.0	1.1	33.0	3.497	--
180	HCC-1B	3219	3219I	intertidal	3	0.06	U	30.0	1.1	33.0	3.497	--
181	HCC-1B	3220	3220I	intertidal	3	0.06	U	30.0	1.1	33.0	3.497	--
182	HCC-1B	4202	4202I	intertidal	3	0.06	U	30.0	1.1	33.0	3.497	--
183	HCC-1A	4102	4102S	subtidal	1	0.04	U	20.0	1.1	22.0	3.091	--
184	HCC-1C	3108		subtidal	1	0.03	UM	15.0	1.1	16.5	2.803	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-2. Sampling data used to map injury footprints for Arsenic (As) in Hylebos Waterway. Injury threshold = 57 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. Ppm	Adj. Factor	Adjusted Conc. Ppm	Ln Conc.	Injury Level
1	HCC-1B	4205	4205I	intertidal	3	1260	J	1260	1.1	1,386.0	7.234	20%
2	HCC-1C	2114	2114 S	subtidal	1	789		789	1.1	867.9	6.766	20%
3	HCC-1B	2202	2202I	intertidal	2	622		622	1.1	684.2	6.528	15%
4	HCC-1B	2206	2206I	intertidal	6	441		441	1.1	485.1	6.184	15%
5	HCC-1B	3221	3221I	intertidal	3	346		346	1.1	380.6	5.942	10%
6	HCC-1B	4207	4207I	intertidal	3	334		334	1.1	367.4	5.906	10%
7	HCC-1B	1217	1217I	intertidal	5	261		261	1.1	287.1	5.660	10%
8	HCC-1C	4118	4118 S	subtidal	1	260		260	1.1	286.0	5.656	10%
9	HCC-1B	1216	1216I	intertidal	3	245		245	1.1	269.5	5.597	10%
10	HCC-1B	1213	1213I	intertidal	4	192		192	1.1	211.2	5.353	10%
11	HCC-1B	3210	3210I	intertidal	2	190	J	190	1.1	209.0	5.342	10%
12	HCC-1C	2113	2113 S	subtidal	1	141		141	1.1	155.1	5.044	10%
13	HCC-1B	2205	2205I	intertidal	3	137		137	1.1	150.7	5.015	10%
14	HCC-1B	1208	1208I	intertidal	2	134		134	1.1	147.4	4.993	10%
15	HCC-1C	2112	2112 S	subtidal	1	134		134	1.1	147.4	4.993	10%
16	HCC-1C	1117	1117 S	subtidal	1	128		128	1.1	140.8	4.947	10%
17	HCC-1B	2209	2209I	intertidal	2	112		112	1.1	123.2	4.814	5%
18	HCC-1C	4120	4120 S	subtidal	1	111		111	1.1	122.1	4.805	5%
19	HCC-1C	5215	5215 I	intertidal	2	92	J	92	1.1	101.6	4.621	5%
20	HCC-1B	2212	2212I	intertidal	3	85.6		85.6	1.1	94.2	4.545	5%
21	HCC-1B	2208	2208I	intertidal	2	68.1		68.1	1.1	74.9	4.316	5%
22	HCC-1B	5201	5201I	intertidal	2	64.6		64.6	1.1	71.1	4.264	5%
23	HCC-1B	3211	3211I	intertidal	4	63.1	J	63.1	1.1	69.4	4.240	5%
24	HCC-1A	2107	2107S	subtidal	1	61.5		61.5	1.1	67.7	4.214	5%
25	HCC-1C	1122	1122 S	subtidal	1	60		60	1.1	66.0	4.190	5%
26	HCC-1A	2102	2102S	subtidal	1	58	J	58	1.1	63.8	4.156	5%
27	HCC-1A	1102	1102S	subtidal	1	57.9		57.9	1.1	63.7	4.154	5%
28	Co-Trustee	HY-25	207	subtidal	1	63		63	1.0	63.4	4.149	5%
29	HCC-1A	2104	2104S	subtidal	1	57	J	57	1.1	62.7	4.138	5%
30	HCC-1B	4209	4209I	intertidal	2	56.6		56.6	1.1	62.3	4.131	5%
31	HCC-1A	1103	1103S	subtidal	1	56	J	56	1.1	61.6	4.121	5%
32	HCC-1C	3107	3107 S	subtidal	1	55		55	1.1	60.9	4.110	5%
33	HCC-1B	5203	5203I	intertidal	2	54.8		54.8	1.1	60.3	4.099	5%
34	HCC-1A	2110	2110S	subtidal	1	54	J	54	1.1	59.4	4.084	5%
35	HCC-1C	2115	2115 S	subtidal	1	54		54	1.1	59.4	4.084	5%
36	HCC-1A	1107	1107S	subtidal	1	52.5		52.5	1.1	57.8	4.056	5%
37	HCC-1B	1201		intertidal	2	52	M(4)	51.6	1.1	56.7	4.038	--
38	HCC-1B	2211	2211I	intertidal	2	50.4		50.4	1.1	55.4	4.015	--
39	Co-Trustee	HY-24	194	subtidal	1	55		54.5	1.0	54.5	3.998	--
40	Co-Trustee	HY-26	222	subtidal	1	55		54.5	1.0	54.5	3.998	--
41	HCC-1B	1207	1207I	intertidal	2	49.5		49.5	1.1	54.5	3.997	--
42	HCC-1A	2111	2111S	subtidal	1	48	J	48	1.1	52.8	3.967	--
43	Co-Trustee	HY-23	176	subtidal	1	53		52.6	1.0	52.6	3.963	--
44	HCC-1A	1111	1111S	subtidal	1	47	J	47	1.1	51.7	3.945	--
45	Co-Trustee	HY-21	141	subtidal	1	52		51.5	1.0	51.5	3.942	--
46	HCC-1A	1113	1113S	subtidal	1	46	J	46	1.1	50.6	3.924	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-2. Sampling data used to map injury footprints for Arsenic (As) in Hylebos Waterway. Injury threshold = 57 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. Ppm	Adj. Factor	Adjusted Conc. Ppm	Ln Conc.	Injury Level
47	HCC-1A	1110	1110S	subtidal	1	45	J	45	1.1	49.5	3.902	--
48	Co-Trustee	HY-20	130	subtidal	1	49		48.9	1.0	48.9	3.890	--
49	HCC-1B	4208	4208I	intertidal	3	44	JM(4)	44.1	1.1	48.5	3.882	--
50	HCC-1C	3109	3109 S	subtidal	1	44		44.0	1.1	48.4	3.879	--
51	HCC-1A	2105	2105S	subtidal	1	43.9		43.9	1.1	48.3	3.877	--
52	HCC-1C	1124	1124 S	subtidal	1	44		43.7	1.1	48.1	3.873	--
53	Co-Trustee	HY-22	159	subtidal	1	47		47.2	1.0	47.2	3.854	--
54	HCC-1B	4204	4204I	intertidal	4	42.0		42.0	1.1	46.2	3.833	--
55	HCC-1A	2103	2103S	subtidal	1	41.4		41.4	1.1	45.5	3.819	--
56	HCC-1A	1106	1106S	subtidal	1	41	J	41	1.1	45.1	3.809	--
57	HCC-1B	3214	3214I	intertidal	2	40.7	J	40.7	1.1	44.8	3.802	--
58	HCC-1A	1105	1105S	subtidal	1	40.6		40.6	1.1	44.7	3.799	--
59	HCC-1B	1212	1212I	intertidal	2	40.6		40.6	1.1	44.7	3.799	--
60	HCC-1A	3105	3105S	subtidal	1	39	J	39	1.1	42.9	3.759	--
61	HCC-1C	1133	1133 S	subtidal	1	39		38.9	1.1	42.8	3.756	--
62	HCC-1B	5202	5202I	intertidal	6	38.6		38.6	1.1	42.5	3.749	--
63	HCC-1A	1112	1112S	subtidal	1	37.9		37.9	1.1	41.7	3.730	--
64	HCC-1C	1126	1126 S	subtidal	1	38		37.8	1.1	41.6	3.728	--
65	HCC-1A	1101		subtidal	1	38	M(4)	37.6	1.1	41.4	3.723	--
66	Co-Trustee	HY-18	77	subtidal	1	41		41.1	1.0	41.1	3.716	--
67	HCC-1B	2204	2204I	intertidal	4	36.9		36.9	1.1	40.6	3.704	--
68	Co-Trustee	HY-27	243	subtidal	1	41		40.5	1.0	40.5	3.701	--
69	HCC-1A	1109	1109S	subtidal	1	36.5		36.5	1.1	40.2	3.693	--
70	Co-Trustee	HY-19		subtidal	1	40	M(3)	40.1	1.0	40.1	3.691	--
71	HCC-1A	2101	2101S	subtidal	1	36	J	36	1.1	39.6	3.679	--
72	HCC-1A	4107	4107S	subtidal	1	36		36	1.1	39.6	3.679	--
73	Co-Trustee	HY-28	270	subtidal	1	38		38.4	1.0	38.4	3.648	--
74	HCC-1A	2109	2109S	subtidal	1	34.5		34.5	1.1	38.0	3.636	--
75	HCC-1A	3106	3106S	subtidal	1	34	J	34	1.1	37.4	3.622	--
76	HY1AGRAB	2108	2108S	subtidal	1	33.4		33.4	1.1	36.7	3.604	--
77	HCC-1A	2106	2106S	subtidal	1	31.8		31.8	1.1	35.0	3.555	--
78	Co-Trustee	HY-15	33	subtidal	1	35		34.6	1.0	34.6	3.544	--
79	Co-Trustee	HY-16	43	subtidal	1	35		34.6	1.0	34.6	3.544	--
80	HCC-1B	5206	5206I	intertidal	2	31.3		31.3	1.1	34.4	3.539	--
81	HCC-1A	4110	4110S	subtidal	1	30.9		30.9	1.1	34.0	3.526	--
82	HCC-1A	5101	5101S	subtidal	1	30	J	30	1.1	33.0	3.497	--
83	HCC-1A	1104	1104S	subtidal	1	29		29	1.1	31.9	3.463	--
84	HCC-1B	2215	2215I	intertidal	7	28.1		28.1	1.1	30.9	3.431	--
85	HCC-1B	2213	2213I	intertidal	4	28.0		28.0	1.1	30.8	3.428	--
86	HCC-1A	3101	3101S	subtidal	1	27.8		27.8	1.1	30.6	3.420	--
87	HCC-1A	4109		subtidal	1	27	M(4)	27.4	1.1	30.1	3.404	--
88	HCC-1B	5207	5207I	intertidal	2	26.9		26.9	1.1	29.6	3.387	--
89	HCC-1B	4210	4210I	intertidal	3	26.1		26.1	1.1	28.7	3.357	--
90	HCC-1A	3104	3104S	subtidal	1	26	J	26	1.1	28.6	3.353	--
91	HCC-1A	5114	5114S	subtidal	1	26	J	26	1.1	28.6	3.353	--
92	HCC-1A	4111	4111S	subtidal	1	25.6		25.6	1.1	28.2	3.338	--
93	HCC-1C	4119	4119 S	subtidal	1	26		25.6	1.1	28.2	3.338	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-2. Sampling data used to map injury footprints for Arsenic (As) in Hylebos Waterway. Injury threshold = 57 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. Ppm	Adj. Factor	Adjusted Conc. Ppm	Ln Conc.	Injury Level
94	HCC-1B	2210	2210I	intertidal	5	25.5		25.5	1.1	28.1	3.334	--
95	Co-Trustee	HY-08	318	subtidal	1	28		27.6	1.0	27.6	3.318	--
96	HCC-1C	1125	1125 S	subtidal	1	25		24.9	1.1	27.4	3.310	--
97	HCC-1C	4117	4117 S	subtidal	1	25		24.9	1.1	27.4	3.310	--
98	HCC-1C	1121	1121 S	subtidal	1	24		24.0	1.1	26.4	3.273	--
99	HCC-1A	4104	4104S	subtidal	1	23.9		23.9	1.1	26.3	3.269	--
100	HCC-1B	3215	3215I	intertidal	2	23.7	J	23.7	1.1	26.1	3.261	--
101	HCC-1B	3212	3212I	intertidal	2	23.6	J	23.6	1.1	26.0	3.257	--
102	HCC-1A	4108	4108S	subtidal	1	23.6	J	23.6	1.1	26.0	3.257	--
103	HCC-1A	1108	1108S	subtidal	1	23.5		23.5	1.1	25.9	3.252	--
104	HCC-1C	3110	3110 S	subtidal	1	23		23.4	1.1	25.7	3.248	--
105	HCC-1A	3102	3102S	subtidal	1	23	J	23	1.1	25.3	3.231	--
106	HCC-1C	1120	1120 S	subtidal	1	23		22.8	1.1	25.1	3.222	--
107	HCC-1B	3209	3209I	intertidal	3	22.8	J	22.8	1.1	25.1	3.222	--
108	HCC-1A	4105	4105S	subtidal	1	22.8	J	22.8	1.1	25.1	3.222	--
109	HCC-1B	1209	1209I	intertidal	3	22.2		22.2	1.1	24.4	3.195	--
110	HCC-1B	3216	3216I	intertidal	3	21.8	J	21.8	1.1	24.0	3.177	--
111	HCC-1B	5205	5205I	intertidal	2	21.7		21.7	1.1	23.9	3.173	--
112	HCC-1A	4115	4115S	subtidal	1	21.3		21.3	1.1	23.4	3.154	--
113	HCC-1C	1123	1123 S	subtidal	1	21		21.2	1.1	23.3	3.149	--
114	HCC-1B	3204	3204I	intertidal	3	21.1	J	21.1	1.1	23.2	3.145	--
115	HCC-1A	5111	5111S	subtidal	1	21.1		21.1	1.1	23.2	3.145	--
116	HCC-1A	4106	4106S	subtidal	1	20.5		20.5	1.1	22.6	3.116	--
117	HCC-1A	5108	5108S	subtidal	1	20.5		20.5	1.1	22.6	3.116	--
118	Co-Trustee	HY-17	61	subtidal	1	22		22.4	1.0	22.4	3.110	--
119	HCC-1A	5115	5115S	subtidal	1	20	J	20	1.1	22.0	3.091	--
120	Co-Trustee	HY-13	10	subtidal	1	22		21.6	1.0	21.6	3.073	--
121	Co-Trustee	HY-12	279	subtidal	1	21		21.4	1.0	21.4	3.063	--
122	HCC-1B	3207	3207I	intertidal	2	19.2		19.2	1.1	21.1	3.050	--
123	HCC-1B	3220	3220I	intertidal	3	19.0	J	19.0	1.1	20.9	3.040	--
124	HCC-1A	5110	5110S	subtidal	1	19.0		19.0	1.1	20.9	3.040	--
125	HCC-1B	5210		intertidal	2	19.0		19.0	1.1	20.9	3.040	--
126	HCC-1A	4103	4103S	subtidal	1	18.2		18.2	1.1	20.0	2.997	--
127	Co-Trustee	HY-06		subtidal	1	20	M(3)	19.9	1.0	19.9	2.991	--
128	HCC-1C	1119	1119 S	subtidal	1	18		17.8	1.1	19.6	2.975	--
129	HCC-1B	1203	1203I	intertidal	7	17.8		17.8	1.1	19.6	2.975	--
130	HCC-1B	1215	1215I	intertidal	4	17.5		17.5	1.1	19.3	2.958	--
131	HCC-1A	5112	5112S	subtidal	1	17.4		17.4	1.1	19.1	2.952	--
132	HCC-1B	2214	2214I	intertidal	2	17.2		17.2	1.1	18.9	2.940	--
133	Co-Trustee	HY-09	350	subtidal	1	19		18.6	1.0	18.6	2.923	--
134	HCC-1A	4101	4101S	subtidal	1	16.9		16.9	1.1	18.6	2.923	--
135	HCC-1B	1206	1206I	intertidal	4	16.6		16.6	1.1	18.3	2.905	--
136	HCC-1A	5103	5103S	subtidal	1	16.5		16.5	1.1	18.2	2.899	--
137	HCC-1B	1202	1202I	intertidal	4	16.2		16.2	1.1	17.8	2.880	--
138	HCC-1C	3112	3112 S	subtidal	1	16		16.0	1.1	17.6	2.868	--
139	HCC-1A	5116	5116S	subtidal	1	16	J	16	1.1	17.6	2.868	--
140	HCC-1B	5208	5208I	intertidal	2	15.9		15.9	1.1	17.5	2.862	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-2. Sampling data used to map injury footprints for Arsenic (As) in Hylebos Waterway. Injury threshold = 57 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. Ppm	Adj. Factor	Adjusted Conc. Ppm	Ln Conc.	Injury Level
141	HCC-1B	5209	5209I	intertidal	5	15.4		15.4	1.1	16.9	2.830	--
142	HCC-1B	5213	5213I	intertidal	4	15.4		15.4	1.1	16.9	2.830	--
143	Co-Trustee	HY-02	442	subtidal	1	17		16.6	1.0	16.6	2.809	--
144	HCC-1A	3103	3103S	subtidal	1	15	J	15	1.1	16.5	2.803	--
145	HCC-1A	5109	5109S	subtidal	1	15.0		15.0	1.1	16.5	2.803	--
146	HCC-1A	5113	5113S	subtidal	1	15.0	J	15.0	1.1	16.5	2.803	--
147	HCC-1B	5214	5214I	intertidal	6	15.0	J	15.0	1.1	16.5	2.803	--
148	Co-Trustee	HY-14	19	subtidal	1	16	M(2)	16.4	1.0	16.4	2.797	--
149	HCC-1B	2207	2207I	intertidal	2	14.5		14.5	1.1	16.0	2.769	--
150	HCC-1B	3217	3217I	intertidal	2	14.3	J	14.3	1.1	15.7	2.756	--
151	HCC-1B	3205	3205I	intertidal	2	14.1	J	14.1	1.1	15.5	2.741	--
152	HCC-1A	5106	5106S	subtidal	1	13.8		13.8	1.1	15.2	2.720	--
153	HCC-1B	1211	1211I	intertidal	2	13.0		13.0	1.1	14.3	2.660	--
154	HCC-1A	5107		subtidal	1	13	M(4)	13.0	1.1	14.3	2.660	--
155	Co-Trustee	HY-11	297	subtidal	1	14		13.9	1.0	13.9	2.632	--
156	HCC-1B	3213	3213I	intertidal	2	12.4	J	12.4	1.1	13.6	2.613	--
157	Co-Trustee	HY-03	428	subtidal	1	14	M(2)	13.5	1.0	13.5	2.603	--
158	HCC-1B	3203	3203I	intertidal	2	12.1	J	12.1	1.1	13.3	2.589	--
159	HCC-1C	1118	1118 S	subtidal	1	12		12.0	1.1	13.2	2.580	--
160	HCC-1A	5105	5105S	subtidal	1	11.0		11.0	1.1	12.1	2.493	--
161	HCC-1B	3219	3219I	intertidal	3	10.7	J	10.7	1.1	11.8	2.466	--
162	HCC-1A	5104	5104S	subtidal	1	10.5		10.5	1.1	11.6	2.447	--
163	HCC-1B	5211	5211I	intertidal	2	10.3		10.3	1.1	11.3	2.427	--
164	HCC-1C	5121	5121 S	subtidal	1	10		10.2	1.1	11.2	2.418	--
165	HCC-1B	3201		intertidal	4	10	JM(4)	10.2	1.1	11.2	2.415	--
166	HCC-1B	1204	1204I	intertidal	4	10.1		10.1	1.1	11.1	2.408	--
167	HCC-1A	4102	4102S	subtidal	1	9.6		9.6	1.1	10.6	2.357	--
168	HCC-1A	5102	5102S	subtidal	1	9.5		9.5	1.1	10.5	2.347	--
169	HCC-1C	5120	5120 S	subtidal	1	9		9.1	1.1	10.0	2.304	--
170	HCC-1C	3108		subtidal	1	9	M	9.0	1.1	9.9	2.296	--
171	HCC-1B	4206	4206I	intertidal	3	9.0	J	9.0	1.1	9.9	2.293	--
172	HCC-1B	5212	5212I	intertidal	6	8.7		8.7	1.1	9.6	2.259	--
173	HCC-1B	1214	1214I	intertidal	3	8.6		8.6	1.1	9.5	2.247	--
174	HCC-1B	3206	3206I	intertidal	3	8.2	J	8.2	1.1	9.0	2.199	--
175	HCC-1C	4116	4116 S	subtidal	1	8		7.6	1.1	8.4	2.123	--
176	HCC-1B	1210	1210I	intertidal	2	6.8		6.8	1.1	7.5	2.012	--
177	Co-Trustee	HY-01	455	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
178	Co-Trustee	HY-04	418	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
179	Co-Trustee	HY-05	383	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
180	Co-Trustee	HY-07	351	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
181	Co-Trustee	HY-10	338	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
182	HCC-1B	4201	4201I	intertidal	4	5.7		5.7	1.1	6.3	1.836	--
183	HCC-1B	4202	4202I	intertidal	3	5.7		5.7	1.1	6.3	1.836	--
184	HCC-1B	4203	4203I	intertidal	2	5.0		5.0	1.1	5.5	1.705	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-3. Sampling data used to map injury footprints for Cadmium (Cd) in Hylebos Waterway. Injury threshold = 2.7 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	3214	3214I	intertidal	2	18.0		18000.0	1.1	19,800.0	9.893	20%
2	HCC-1B	2211	2211I	intertidal	2	4.10		4100.0	1.1	4,510.0	8.414	5%
3	HCC-1B	4207	4207I	intertidal	3	2.70		2700.0	1.1	2,970.0	7.996	5%
4	HCC-1B	5201	5201I	intertidal	2	2.20		2200.0	1.1	2,420.0	7.792	--
5	HCC-1B	1217	1217I	intertidal	5	2.00		2000.0	1.1	2,200.0	7.696	--
6	HCC-1B	5207	5207I	intertidal	2	1.90		1900.0	1.1	2,090.0	7.645	--
7	HCC-1B	5203	5203I	intertidal	2	1.70		1700.0	1.1	1,870.0	7.534	--
8	HCC-1B	3221	3221I	intertidal	3	1.60		1600.0	1.1	1,760.0	7.473	--
9	HCC-1A	1103	1103S	subtidal	1	1.57		1570.0	1.1	1,727.0	7.454	--
10	HCC-1A	1102	1102S	subtidal	1	1.50		1500.0	1.1	1,650.0	7.409	--
11	HCC-1A	2107	2107S	subtidal	1	1.50		1500.0	1.1	1,650.0	7.409	--
12	HCC-1A	1106	1106S	subtidal	1	1.45		1450.0	1.1	1,595.0	7.375	--
13	HCC-1B	1208	1208I	intertidal	2	1.40		1400.0	1.1	1,540.0	7.340	--
14	Co-Trustee	HY-28	270	subtidal	1	1.50		1500.0	1.0	1,500.0	7.313	--
15	HCC-1A	1101		subtidal	1	1.325	M(4)	1325.0	1.1	1,457.5	7.284	--
16	HCC-1C	2115	2115 S	subtidal	1	1.30		1300.0	1.1	1,430.0	7.265	--
17	HCC-1A	4110	4110S	subtidal	1	1.30		1300.0	1.1	1,430.0	7.265	--
18	HCC-1A	2110	2110S	subtidal	1	1.27		1270.0	1.1	1,397.0	7.242	--
19	HCC-1A	1110	1110S	subtidal	1	1.23		1230.0	1.1	1,353.0	7.210	--
20	Co-Trustee	HY-25	207	subtidal	1	1.35		1350.0	1.0	1,350.0	7.208	--
21	HCC-1B	5206	5206I	intertidal	2	1.20		1200.0	1.1	1,320.0	7.185	--
22	HCC-1A	1111	1111S	subtidal	1	1.18		1180.0	1.1	1,298.0	7.169	--
23	HCC-1A	1105	1105S	subtidal	1	1.10		1100.0	1.1	1,210.0	7.098	--
24	HCC-1A	1107	1107S	subtidal	1	1.10		1100.0	1.1	1,210.0	7.098	--
25	HCC-1A	1108	1108S	subtidal	1	1.10		1100.0	1.1	1,210.0	7.098	--
26	HCC-1C	1125	1125 S	subtidal	1	1.10	B	1100.0	1.1	1,210.0	7.098	--
27	HCC-1A	2103	2103S	subtidal	1	1.10		1100.0	1.1	1,210.0	7.098	--
28	HCC-1A	2108	2108S	subtidal	1	1.10		1100.0	1.1	1,210.0	7.098	--
29	HCC-1B	5211	5211I	intertidal	2	1.10		1100.0	1.1	1,210.0	7.098	--
30	Co-Trustee	HY-24	194	subtidal	1	1.18		1180.0	1.0	1,180.0	7.073	--
31	HCC-1A	1113	1113S	subtidal	1	1.07		1070.0	1.1	1,177.0	7.071	--
32	HCC-1C	1121	1121 S	subtidal	1	2.10	U	1050.0	1.1	1,155.0	7.052	--
33	HCC-1A	2104	2104S	subtidal	1	1.05		1050.0	1.1	1,155.0	7.052	--
34	Co-Trustee	HY-23	176	subtidal	1	1.14		1140.0	1.0	1,140.0	7.039	--
35	HCC-1B	1216	1216I	intertidal	3	1.00		1000.0	1.1	1,100.0	7.003	--
36	HCC-1A	2102	2102S	subtidal	1	1.00		1000.0	1.1	1,100.0	7.003	--
37	HCC-1B	3216	3216I	intertidal	3	1.00		1000.0	1.1	1,100.0	7.003	--
38	HCC-1A	5111	5111S	subtidal	1	1.00		1000.0	1.1	1,100.0	7.003	--
39	HCC-1A	4107	4107S	subtidal	1	0.97		970.0	1.1	1,067.0	6.973	--
40	Co-Trustee	HY-26	222	subtidal	1	1.05		1050.0	1.0	1,050.0	6.957	--
41	HCC-1A	4111	4111S	subtidal	1	0.95		950.0	1.1	1,045.0	6.952	--
42	HCC-1A	2111	2111S	subtidal	1	0.94		940.0	1.1	1,034.0	6.941	--
43	HCC-1A	4104	4104S	subtidal	1	0.94		940.0	1.1	1,034.0	6.941	--
44	HCC-1A	2105	2105S	subtidal	1	0.92		920.0	1.1	1,012.0	6.920	--
45	HCC-1B	5210		intertidal	2	0.91		910.0	1.1	1,001.0	6.909	--
46	HCC-1A	3105	3105S	subtidal	1	0.87		870.0	1.1	957.0	6.864	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-3. Sampling data used to map injury footprints for Cadmium (Cd) in Hylebos Waterway. Injury threshold = 2.7 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	HCC-1B	4209	4209I	intertidal	2	0.87		870.0	1.1	957.0	6.864	--
48	HCC-1A	5108	5108S	subtidal	1	0.86		860.0	1.1	946.0	6.852	--
49	HCC-1A	2101	2101S	subtidal	1	0.85		850.0	1.1	935.0	6.841	--
50	HCC-1A	3101	3101S	subtidal	1	0.84		840.0	1.1	924.0	6.829	--
51	HCC-1A	3106	3106S	subtidal	1	0.79		790.0	1.1	869.0	6.767	--
52	HCC-1A	1109	1109S	subtidal	1	0.77		770.0	1.1	847.0	6.742	--
53	HCC-1A	2109	2109S	subtidal	1	0.77		770.0	1.1	847.0	6.742	--
54	Co-Trustee	HY-21	141	subtidal	1	0.83		830.0	1.0	830.0	6.721	--
55	HCC-1C	1124	1124 S	subtidal	1	1.50	U	750.0	1.1	825.0	6.715	--
56	HCC-1C	3108		subtidal	1	0.75	UM	750.0	1.1	825.0	6.715	--
57	HCC-1A	5112	5112S	subtidal	1	0.74		740.0	1.1	814.0	6.702	--
58	HCC-1A	5109	5109S	subtidal	1	0.71		710.0	1.1	781.0	6.661	--
59	HCC-1C	1133	1133 S	subtidal	1	1.40	U	700.0	1.1	770.0	6.646	--
60	HCC-1B	4208	4208I	intertidal	3	0.70	M(4)	700.0	1.1	770.0	6.646	--
61	Co-Trustee	HY-20	130	subtidal	1	0.762		762.0	1.0	762.0	6.636	--
62	HCC-1A	4109		subtidal	1	0.685	M(4)	685.0	1.1	753.5	6.625	--
63	HCC-1B	3211	3211I	intertidal	4	0.68		680.0	1.1	748.0	6.617	--
64	HCC-1C	1117	1117 S	subtidal	1	1.30	U	650.0	1.1	715.0	6.572	--
65	HCC-1C	3110	3110 S	subtidal	1	1.30	U	650.0	1.1	715.0	6.572	--
66	HCC-1B	1201		intertidal	2	0.643	M(4)	642.5	1.1	706.8	6.561	--
67	HCC-1A	5106	5106S	subtidal	1	0.64		640.0	1.1	704.0	6.557	--
68	Co-Trustee	HY-27	243	subtidal	1	0.694		694.0	1.0	694.0	6.542	--
69	Co-Trustee	HY-22	159	subtidal	1	0.685		685.0	1.0	685.0	6.529	--
70	HCC-1A	5107		subtidal	1	0.615	M(4)	615.0	1.1	676.5	6.517	--
71	HCC-1A	1104	1104S	subtidal	1	0.61		610.0	1.1	671.0	6.509	--
72	HCC-1C	1118	1118 S	subtidal	1	1.20	U	600.0	1.1	660.0	6.492	--
73	HCC-1C	1123	1123 S	subtidal	1	1.20	U	600.0	1.1	660.0	6.492	--
74	HCC-1C	2114	2114 S	subtidal	1	1.20	U	600.0	1.1	660.0	6.492	--
75	HCC-1C	4117	4117 S	subtidal	1	1.20	U	600.0	1.1	660.0	6.492	--
76	Co-Trustee	HY-19		subtidal	1	0.66	M(3)	660.0	1.0	660.0	6.492	--
77	HCC-1A	2106	2106S	subtidal	1	0.59		590.0	1.1	649.0	6.475	--
78	HCC-1A	5114	5114S	subtidal	1	0.58		580.0	1.1	638.0	6.458	--
79	HCC-1A	3102	3102S	subtidal	1	0.57		570.0	1.1	627.0	6.441	--
80	HCC-1A	5104	5104S	subtidal	1	0.57		570.0	1.1	627.0	6.441	--
81	Co-Trustee	HY-18	77	subtidal	1	0.618		618.0	1.0	618.0	6.426	--
82	HCC-1C	3109	3109 S	subtidal	1	1.10	U	550.0	1.1	605.0	6.405	--
83	HCC-1A	5110	5110S	subtidal	1	0.55		550.0	1.1	605.0	6.405	--
84	HCC-1B	5202	5202I	intertidal	6	0.55		550.0	1.1	605.0	6.405	--
85	HCC-1B	2215	2215I	intertidal	7	0.54		540.0	1.1	594.0	6.387	--
86	HCC-1A	3103	3103S	subtidal	1	0.54		540.0	1.1	594.0	6.387	--
87	HCC-1B	2206	2206I	intertidal	6	0.52		520.0	1.1	572.0	6.349	--
88	Co-Trustee	HY-16	43	subtidal	1	0.56		560.0	1.0	560.0	6.328	--
89	HCC-1A	1112	1112S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
90	HCC-1C	1120	1120 S	subtidal	1	1.00	U	500.0	1.1	550.0	6.310	--
91	HCC-1C	2112	2112 S	subtidal	1	1.00	U	500.0	1.1	550.0	6.310	--
92	HCC-1A	3104	3104S	subtidal	1	0.50		500.0	1.1	550.0	6.310	--
93	HCC-1C	4119	4119 S	subtidal	1	1.00	U	500.0	1.1	550.0	6.310	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-3. Sampling data used to map injury footprints for Cadmium (Cd) in Hylebos Waterway. Injury threshold = 2.7 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
94	HCC-1C	4120	4120 S	subtidal	1	1.00	U	500.0	1.1	550.0	6.310	--
95	HCC-1C	1122	1122 S	subtidal	1	0.95	U	475.0	1.1	522.5	6.259	--
96	HCC-1C	1126	1126 S	subtidal	1	0.92	U	460.0	1.1	506.0	6.227	--
97	HCC-1C	4118	4118 S	subtidal	1	0.92	U	460.0	1.1	506.0	6.227	--
98	HCC-1A	5102	5102S	subtidal	1	0.46		460.0	1.1	506.0	6.227	--
99	HCC-1C	5120	5120 S	subtidal	1	0.91	U	455.0	1.1	500.5	6.216	--
100	HCC-1C	3112	3112 S	subtidal	1	0.90	U	450.0	1.1	495.0	6.205	--
101	HCC-1A	5115	5115S	subtidal	1	0.45		450.0	1.1	495.0	6.205	--
102	HCC-1C	5215	5215 I	intertidal	2	0.90	U	450.0	1.1	495.0	6.205	--
103	HCC-1C	5121	5121 S	subtidal	1	0.89	U	445.0	1.1	489.5	6.193	--
104	HCC-1A	4105	4105S	subtidal	1	0.43		430.0	1.1	473.0	6.159	--
105	HCC-1A	5103	5103S	subtidal	1	0.43		430.0	1.1	473.0	6.159	--
106	HCC-1A	5116	5116S	subtidal	1	0.43		430.0	1.1	473.0	6.159	--
107	HCC-1C	1119	1119 S	subtidal	1	0.85	U	425.0	1.1	467.5	6.147	--
108	HCC-1A	4101	4101S	subtidal	1	0.42		420.0	1.1	462.0	6.136	--
109	HCC-1A	5113	5113S	subtidal	1	0.42		420.0	1.1	462.0	6.136	--
110	HCC-1C	2113	2113 S	subtidal	1	0.82	U	410.0	1.1	451.0	6.111	--
111	HCC-1B	2210	2210I	intertidal	5	0.41		410.0	1.1	451.0	6.111	--
112	HCC-1A	4108	4108S	subtidal	1	0.41		410.0	1.1	451.0	6.111	--
113	Co-Trustee	HY-15	33	subtidal	1	0.45		447.0	1.0	447.0	6.103	--
114	HCC-1B	2209	2209I	intertidal	2	0.40		400.0	1.1	440.0	6.087	--
115	HCC-1A	4103	4103S	subtidal	1	0.40		400.0	1.1	440.0	6.087	--
116	HCC-1B	2202	2202I	intertidal	2	0.39		390.0	1.1	429.0	6.061	--
117	HCC-1C	4116	4116 S	subtidal	1	0.78	U	390.0	1.1	429.0	6.061	--
118	HCC-1B	3219	3219I	intertidal	3	0.38		380.0	1.1	418.0	6.035	--
119	HCC-1A	4102	4102S	subtidal	1	0.38		380.0	1.1	418.0	6.035	--
120	HCC-1C	3107	3107 S	subtidal	1	0.74	U	370.0	1.1	407.0	6.009	--
121	Co-Trustee	HY-08	318	subtidal	1	0.40		400.0	1.0	400.0	5.991	--
122	HCC-1A	5101	5101S	subtidal	1	0.36		360.0	1.1	396.0	5.981	--
123	Co-Trustee	HY-06		subtidal	1	0.388	M(3)	388.0	1.0	388.0	5.961	--
124	HCC-1B	3215	3215I	intertidal	2	0.35		350.0	1.1	385.0	5.953	--
125	HCC-1A	5105	5105S	subtidal	1	0.35		350.0	1.1	385.0	5.953	--
126	HCC-1B	3201		intertidal	4	0.348	UM(4)	347.5	1.1	382.3	5.946	--
127	HCC-1B	1207	1207I	intertidal	2	0.34		340.0	1.1	374.0	5.924	--
128	HCC-1B	4204	4204I	intertidal	4	0.34		340.0	1.1	374.0	5.924	--
129	HCC-1A	4106	4106S	subtidal	1	0.33		330.0	1.1	363.0	5.894	--
130	HCC-1B	1212	1212I	intertidal	2	0.32		320.0	1.1	352.0	5.864	--
131	Co-Trustee	HY-10	338	subtidal	1	0.343		343.0	1.0	343.0	5.838	--
132	Co-Trustee	HY-11	297	subtidal	1	0.335		335.0	1.0	335.0	5.814	--
133	Co-Trustee	HY-12	279	subtidal	1	0.308		308.0	1.0	308.0	5.730	--
134	Co-Trustee	HY-09	350	subtidal	1	0.292		292.0	1.0	292.0	5.677	--
135	Co-Trustee	HY-04	418	subtidal	1	0.281		281.0	1.0	281.0	5.638	--
136	Co-Trustee	HY-02	442	subtidal	1	0.255		255.0	1.0	255.0	5.541	--
137	Co-Trustee	HY-03	428	subtidal	1	0.241	M	241.0	1.0	241.0	5.485	--
138	Co-Trustee	HY-14		subtidal	1	0.236	M	236.0	1.0	236.0	5.464	--
139	Co-Trustee	HY-05	383	subtidal	1	0.234		234.0	1.0	234.0	5.455	--
140	Co-Trustee	HY-13	10	subtidal	1	0.230		230.0	1.0	230.0	5.438	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-3. Sampling data used to map injury footprints for Cadmium (Cd) in Hylebos Waterway. Injury threshold = 2.7 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
141	Co-Trustee	HY-07	351	subtidal	1	0.206		206.0	1.0	206.0	5.328	--
142	Co-Trustee	HY-17	61	subtidal	1	0.202		202.0	1.0	202.0	5.308	--
143	HCC-1B	3204	3204I	intertidal	3	0.36	U	180.0	1.1	198.0	5.288	--
144	HCC-1B	3207	3207I	intertidal	2	0.36	U	180.0	1.1	198.0	5.288	--
145	HCC-1B	3212	3212I	intertidal	2	0.36	U	180.0	1.1	198.0	5.288	--
146	HCC-1B	5209	5209I	intertidal	5	0.36	U	180.0	1.1	198.0	5.288	--
147	HCC-1B	5213	5213I	intertidal	4	0.36	U	180.0	1.1	198.0	5.288	--
148	HCC-1B	1203	1203I	intertidal	7	0.35	U	175.0	1.1	192.5	5.260	--
149	HCC-1B	1214	1214I	intertidal	3	0.35	U	175.0	1.1	192.5	5.260	--
150	HCC-1B	2207	2207I	intertidal	2	0.35	U	175.0	1.1	192.5	5.260	--
151	HCC-1B	2213	2213I	intertidal	4	0.35	U	175.0	1.1	192.5	5.260	--
152	HCC-1B	2214	2214I	intertidal	2	0.35	U	175.0	1.1	192.5	5.260	--
153	HCC-1B	3213	3213I	intertidal	2	0.35	U	175.0	1.1	192.5	5.260	--
154	HCC-1B	4201	4201I	intertidal	4	0.35	U	175.0	1.1	192.5	5.260	--
155	HCC-1B	4203	4203I	intertidal	2	0.35	U	175.0	1.1	192.5	5.260	--
156	HCC-1B	4210	4210I	intertidal	3	0.35	U	175.0	1.1	192.5	5.260	--
157	HCC-1B	1204	1204I	intertidal	4	0.34	U	170.0	1.1	187.0	5.231	--
158	HCC-1B	1210	1210I	intertidal	2	0.34	U	170.0	1.1	187.0	5.231	--
159	HCC-1B	2212	2212I	intertidal	3	0.34	U	170.0	1.1	187.0	5.231	--
160	HCC-1B	3205	3205I	intertidal	2	0.34	U	170.0	1.1	187.0	5.231	--
161	HCC-1B	3220	3220I	intertidal	3	0.34	U	170.0	1.1	187.0	5.231	--
162	HCC-1B	4202	4202I	intertidal	3	0.34	U	170.0	1.1	187.0	5.231	--
163	HCC-1B	4206	4206I	intertidal	3	0.34	U	170.0	1.1	187.0	5.231	--
164	HCC-1B	5212	5212I	intertidal	6	0.34	U	170.0	1.1	187.0	5.231	--
165	HCC-1B	5214	5214I	intertidal	6	0.34	U	170.0	1.1	187.0	5.231	--
166	Co-Trustee	HY-01	455	subtidal	1	0.184		184.0	1.0	184.0	5.215	--
167	HCC-1B	1206	1206I	intertidal	4	0.33	U	165.0	1.1	181.5	5.201	--
168	HCC-1B	1211	1211I	intertidal	2	0.33	U	165.0	1.1	181.5	5.201	--
169	HCC-1B	2205	2205I	intertidal	3	0.33	U	165.0	1.1	181.5	5.201	--
170	HCC-1B	2208	2208I	intertidal	2	0.33	U	165.0	1.1	181.5	5.201	--
171	HCC-1B	3217	3217I	intertidal	2	0.33	U	165.0	1.1	181.5	5.201	--
172	HCC-1B	4205	4205I	intertidal	3	0.33	U	165.0	1.1	181.5	5.201	--
173	HCC-1B	1202	1202I	intertidal	4	0.32	U	160.0	1.1	176.0	5.170	--
174	HCC-1B	1209	1209I	intertidal	3	0.32	U	160.0	1.1	176.0	5.170	--
175	HCC-1B	3206	3206I	intertidal	3	0.32	U	160.0	1.1	176.0	5.170	--
176	HCC-1B	3210	3210I	intertidal	2	0.32	U	160.0	1.1	176.0	5.170	--
177	HCC-1B	5208	5208I	intertidal	2	0.32	U	160.0	1.1	176.0	5.170	--
178	HCC-1B	1215	1215I	intertidal	4	0.31	U	155.0	1.1	170.5	5.139	--
179	HCC-1B	3209	3209I	intertidal	3	0.31	U	155.0	1.1	170.5	5.139	--
180	HCC-1B	1213	1213I	intertidal	4	0.30	U	150.0	1.1	165.0	5.106	--
181	HCC-1B	2204	2204I	intertidal	4	0.30	U	150.0	1.1	165.0	5.106	--
182	HCC-1B	3203	3203I	intertidal	2	0.30	U	150.0	1.1	165.0	5.106	--
183	HCC-1B	5205	5205I	intertidal	2	0.29	U	145.0	1.1	159.5	5.072	--
184	HCC-1A	4115	4115S	subtidal	1	0.28	U	140.0	1.1	154.0	5.037	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-4. Sampling data used to map injury footprints for Chromium (Cr) in Hylebos Waterway. Injury threshold = 63.5 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
1	HCC-1B	5212	5212I	intertidal	6	981		981	1.1	1,079.1	6.984	20%
2	HCC-1B	4205	4205I	intertidal	3	309		309	1.1	339.9	5.829	20%
3	HCC-1B	4204	4204I	intertidal	4	248		248	1.1	272.8	5.609	20%
4	HCC-1B	5203	5203I	intertidal	2	231		231	1.1	254.1	5.538	10%
5	HCC-1B	3214	3214I	intertidal	2	106		106	1.1	116.6	4.759	10%
6	HCC-1B	5206	5206I	intertidal	2	79.6		79.6	1.1	87.6	4.472	5%
7	HCC-1C	5215	5215 I	intertidal	2	75.1	J	75.1	1.1	82.6	4.414	5%
8	HCC-1B	2202	2202I	intertidal	2	70.5		70.5	1.1	77.6	4.351	5%
9	HCC-1B	2211	2211I	intertidal	2	69.0		69.0	1.1	75.9	4.329	5%
10	HCC-1C	4120	4120 S	subtidal	1	66.3		66.3	1.1	72.9	4.290	5%
11	HCC-1B	5205	5205I	intertidal	2	65.4		65.4	1.1	71.9	4.276	5%
12	HCC-1B	5201	5201I	intertidal	2	64.3		64.3	1.1	70.7	4.259	5%
13	HCC-1B	1216	1216I	intertidal	3	61.8		61.8	1.1	68.0	4.219	5%
14	HCC-1B	5202	5202I	intertidal	6	52.4		52.4	1.1	57.6	4.054	--
15	HCC-1C	2114	2114 S	subtidal	1	51.9		51.9	1.1	57.1	4.045	--
16	HCC-1A	5115	5115S	subtidal	1	51.9		51.9	1.1	57.1	4.045	--
17	HCC-1C	4117	4117 S	subtidal	1	49.1		49.1	1.1	54.0	3.989	--
18	HCC-1A	2106	2106S	subtidal	1	48.4		48.4	1.1	53.2	3.975	--
19	HCC-1A	2102	2102S	subtidal	1	47.1		47.1	1.1	51.8	3.948	--
20	HCC-1B	1217	1217I	intertidal	5	46.6		46.6	1.1	51.3	3.937	--
21	HCC-1A	2104	2104S	subtidal	1	46.6		46.6	1.1	51.3	3.937	--
22	HCC-1A	4107	4107S	subtidal	1	46.5		46.5	1.1	51.2	3.935	--
23	Co-Trustee	HY-26	222	subtidal	1	50.2		50.2	1.0	50.2	3.916	--
24	HCC-1A	2105	2105S	subtidal	1	45.6		45.6	1.1	50.2	3.915	--
25	HCC-1A	1107	1107S	subtidal	1	45.3		45.3	1.1	49.8	3.909	--
26	HCC-1A	1103	1103S	subtidal	1	44.9		44.9	1.1	49.4	3.900	--
27	Co-Trustee	HY-20	130	subtidal	1	49.3		49.3	1.0	49.3	3.898	--
28	HCC-1A	1111	1111S	subtidal	1	44.8		44.8	1.1	49.3	3.898	--
29	HCC-1A	2103	2103S	subtidal	1	44.8		44.8	1.1	49.3	3.898	--
30	Co-Trustee	HY-25	207	subtidal	1	48.8		48.8	1.0	48.8	3.888	--
31	HCC-1A	1102	1102S	subtidal	1	44.3		44.3	1.1	48.7	3.886	--
32	HCC-1A	1110	1110S	subtidal	1	44.3		44.3	1.1	48.7	3.886	--
33	HCC-1A	1105	1105S	subtidal	1	44.2		44.2	1.1	48.6	3.884	--
34	HCC-1A	1106	1106S	subtidal	1	42.7		42.7	1.1	47.0	3.850	--
35	HCC-1B	4209	4209I	intertidal	2	42.7		42.7	1.1	47.0	3.850	--
36	HCC-1C	1124	1124 S	subtidal	1	42.2		42.2	1.1	46.4	3.838	--
37	HCC-1A	1113	1113S	subtidal	1	42.1		42.1	1.1	46.3	3.835	--
38	Co-Trustee	HY-24	194	subtidal	1	45.6		45.6	1.0	45.6	3.820	--
39	HCC-1A	2107	2107S	subtidal	1	41.2		41.2	1.1	45.3	3.814	--
40	HCC-1A	4109		subtidal	1	40.7	M(4)	40.7	1.1	44.8	3.802	--
41	HCC-1A	1108	1108S	subtidal	1	40.3		40.3	1.1	44.3	3.792	--
42	HCC-1B	2212	2212I	intertidal	3	40.2		40.2	1.1	44.2	3.789	--
43	HCC-1A	2110	2110S	subtidal	1	39.9		39.9	1.1	43.9	3.782	--
44	Co-Trustee	HY-28	270	subtidal	1	43.6		43.6	1.0	43.6	3.775	--
45	HCC-1B	5207	5207I	intertidal	2	39.1		39.1	1.1	43.0	3.761	--
46	HCC-1A	1101		subtidal	1	39.0	M(4)	39.0	1.1	42.8	3.758	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-4. Sampling data used to map injury footprints for Chromium (Cr) in Hylebos Waterway. Injury threshold = 63.5 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
47	HCC-1A	2101	2101S	subtidal	1	38.5		38.5	1.1	42.4	3.746	--
48	HCC-1A	1104	1104S	subtidal	1	38.4		38.4	1.1	42.2	3.743	--
49	HCC-1A	3106	3106S	subtidal	1	37.7		37.7	1.1	41.5	3.725	--
50	HCC-1C	2115	2115 S	subtidal	1	37.3		37.3	1.1	41.0	3.714	--
51	HCC-1A	4106	4106S	subtidal	1	37.2		37.2	1.1	40.9	3.712	--
52	HCC-1B	1208	1208I	intertidal	2	37.0		37.0	1.1	40.7	3.706	--
53	Co-Trustee	HY-27	243	subtidal	1	40.7		40.7	1.0	40.7	3.706	--
54	HCC-1B	3210	3210I	intertidal	2	36.9		36.9	1.1	40.6	3.704	--
55	HCC-1A	4110	4110S	subtidal	1	36.9		36.9	1.1	40.6	3.704	--
56	HCC-1C	1117	1117 S	subtidal	1	36.7		36.7	1.1	40.4	3.698	--
57	HCC-1A	3105	3105S	subtidal	1	36.7		36.7	1.1	40.4	3.698	--
58	HCC-1A	2108	2108S	subtidal	1	36.5		36.5	1.1	40.2	3.693	--
59	HCC-1A	2111	2111S	subtidal	1	35.5		35.5	1.1	39.1	3.665	--
60	HCC-1C	2112	2112 S	subtidal	1	35.5		35.5	1.1	39.1	3.665	--
61	HCC-1B	2204	2204I	intertidal	4	35.4		35.4	1.1	38.9	3.662	--
62	HCC-1A	1112	1112S	subtidal	1	35.0		35.0	1.1	38.5	3.651	--
63	HCC-1A	2109	2109S	subtidal	1	34.9		34.9	1.1	38.4	3.648	--
64	HCC-1C	1121	1121 S	subtidal	1	34.7		34.7	1.1	38.2	3.642	--
65	HCC-1A	1109	1109S	subtidal	1	34.6		34.6	1.1	38.1	3.639	--
66	HCC-1C	3110	3110 S	subtidal	1	34.3		34	1.1	37.7	3.630	--
67	HCC-1A	4111	4111S	subtidal	1	34.2		34.2	1.1	37.6	3.628	--
68	HCC-1C	1133	1133 S	subtidal	1	34.1		34.1	1.1	37.5	3.625	--
69	HCC-1B	2214	2214I	intertidal	2	34.1		34.1	1.1	37.5	3.625	--
70	Co-Trustee	HY-16	43	subtidal	1	37.3		37.3	1.0	37.3	3.619	--
71	HCC-1B	2210	2210I	intertidal	5	33.6		33.6	1.1	37.0	3.610	--
72	HCC-1B	1213	1213I	intertidal	4	33.3		33.3	1.1	36.6	3.601	--
73	Co-Trustee	HY-15	33	subtidal	1	36.6		36.6	1.0	36.6	3.600	--
74	HCC-1A	3101	3101S	subtidal	1	33.2		33.2	1.1	36.5	3.598	--
75	Co-Trustee	HY-21	141	subtidal	1	36.4		36.4	1.0	36.4	3.595	--
76	HCC-1B	1212	1212I	intertidal	2	32.6		32.6	1.1	35.9	3.580	--
77	HCC-1B	4207	4207I	intertidal	3	32.4		32.4	1.1	35.6	3.573	--
78	Co-Trustee	HY-19		subtidal	1	35.5	M(3)	35.5	1.0	35.5	3.570	--
79	HCC-1C	1126	1126 S	subtidal	1	32.2		32.2	1.1	35.4	3.567	--
80	HCC-1A	4115	4115S	subtidal	1	32.0		32.0	1.1	35.2	3.561	--
81	HCC-1B	5208	5208I	intertidal	2	31.9		31.9	1.1	35.1	3.558	--
82	HCC-1A	5116	5116S	subtidal	1	31.7		31.7	1.1	34.9	3.552	--
83	Co-Trustee	HY-23	176	subtidal	1	34.5		34.5	1.0	34.5	3.541	--
84	HCC-1B	4206	4206I	intertidal	3	31.2		31.2	1.1	34.3	3.536	--
85	HCC-1A	5101	5101S	subtidal	1	31.2		31.2	1.1	34.3	3.536	--
86	HCC-1A	5114	5114S	subtidal	1	31.0		31.0	1.1	34.1	3.529	--
87	Co-Trustee	HY-18	77	subtidal	1	33.7		33.7	1.0	33.7	3.517	--
88	HCC-1B	3217	3217I	intertidal	2	30.5		30.5	1.1	33.6	3.513	--
89	HCC-1A	3102	3102S	subtidal	1	30.3		30.3	1.1	33.3	3.506	--
90	HCC-1A	4104	4104S	subtidal	1	30.3		30.3	1.1	33.3	3.506	--
91	Co-Trustee	HY-10	338	subtidal	1	32.8		32.8	1.0	32.8	3.490	--
92	HCC-1B	4210	4210I	intertidal	3	29.8		29.8	1.1	32.8	3.490	--
93	Co-Trustee	HY-08	318	subtidal	1	32.5		32.5	1.0	32.5	3.481	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-4. Sampling data used to map injury footprints for Chromium (Cr) in Hylebos Waterway. Injury threshold = 63.5 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
94	HCC-1B	1201		intertidal	2	29.3	M(4)	29.3	1.1	32.3	3.474	--
95	HCC-1A	5111	5111S	subtidal	1	29.2		29.2	1.1	32.1	3.469	--
96	HCC-1A	5110	5110S	subtidal	1	28.9		28.9	1.1	31.8	3.459	--
97	HCC-1A	5103	5103S	subtidal	1	28.7		28.7	1.1	31.6	3.452	--
98	HCC-1A	3104	3104S	subtidal	1	28.4		28.4	1.1	31.2	3.442	--
99	HCC-1B	5210		intertidal	2	28.3		28.3	1.1	31.1	3.438	--
100	Co-Trustee	HY-02	442	subtidal	1	30.9		30.9	1.0	30.9	3.431	--
101	HCC-1A	5112	5112S	subtidal	1	28.0		28.0	1.1	30.8	3.428	--
102	Co-Trustee	HY-22	159	subtidal	1	30.8		30.8	1.0	30.8	3.428	--
103	HCC-1B	2208	2208I	intertidal	2	27.9		27.9	1.1	30.7	3.424	--
104	HCC-1C	1122	1122 S	subtidal	1	27.8		27.8	1.1	30.6	3.420	--
105	HCC-1B	3204	3204I	intertidal	3	27.8		27.8	1.1	30.6	3.420	--
106	Co-Trustee	HY-06		subtidal	1	30.5	M(3)	30.5	1.0	30.5	3.419	--
107	HCC-1B	2206	2206I	intertidal	6	27.6		27.6	1.1	30.4	3.413	--
108	HCC-1B	1207	1207I	intertidal	2	27.5		27.5	1.1	30.3	3.409	--
109	HCC-1A	5109	5109S	subtidal	1	27.5		27.5	1.1	30.3	3.409	--
110	HCC-1B	5211	5211I	intertidal	2	27.4		27.4	1.1	30.1	3.406	--
111	HCC-1A	5108	5108S	subtidal	1	27.0		27.0	1.1	29.7	3.391	--
112	Co-Trustee	HY-03	428	subtidal	1	29.6	M	29.6	1.0	29.6	3.386	--
113	HCC-1B	2209	2209I	intertidal	2	26.7		26.7	1.1	29.4	3.380	--
114	Co-Trustee	HY-05	383	subtidal	1	29.3		29.3	1.0	29.3	3.378	--
115	Co-Trustee	HY-13	10	subtidal	1	28.9		28.9	1.0	28.9	3.364	--
116	HCC-1B	1210	1210I	intertidal	2	25.8		25.8	1.1	28.4	3.346	--
117	Co-Trustee	HY-11	297	subtidal	1	28.3		28.3	1.0	28.3	3.343	--
118	HCC-1B	2205	2205I	intertidal	3	25.7		25.7	1.1	28.3	3.342	--
119	Co-Trustee	HY-07	351	subtidal	1	28.2		28.2	1.0	28.2	3.340	--
120	HCC-1B	1214	1214I	intertidal	3	25.6		25.6	1.1	28.2	3.338	--
121	HCC-1B	4208	4208I	intertidal	3	25.6	M(4)	25.6	1.1	28.2	3.338	--
122	HCC-1C	4119	4119 S	subtidal	1	25.5		25.5	1.1	28.1	3.334	--
123	Co-Trustee	HY-04	418	subtidal	1	28.0		28.0	1.0	28.0	3.332	--
124	Co-Trustee	HY-12	279	subtidal	1	27.8		27.8	1.0	27.8	3.325	--
125	HCC-1B	1211	1211I	intertidal	2	25.2		25.2	1.1	27.7	3.322	--
126	Co-Trustee	HY-09	350	subtidal	1	27.6		27.6	1.0	27.6	3.318	--
127	HCC-1B	3213	3213I	intertidal	2	24.9		24.9	1.1	27.4	3.310	--
128	HCC-1A	5104	5104S	subtidal	1	24.8		24.8	1.1	27.3	3.306	--
129	HCC-1A	4103	4103S	subtidal	1	24.7		24.7	1.1	27.2	3.302	--
130	HCC-1C	1125	1125 S	subtidal	1	24.6		24.6	1.1	27.1	3.298	--
131	HCC-1A	5106	5106S	subtidal	1	24.5		24.5	1.1	27.0	3.294	--
132	HCC-1B	5213	5213I	intertidal	4	24.5		24.5	1.1	27.0	3.294	--
133	HCC-1C	1120	1120 S	subtidal	1	24.4		24.4	1.1	26.8	3.290	--
134	HCC-1B	2215	2215I	intertidal	7	24.4		24.4	1.1	26.8	3.290	--
135	HCC-1A	4105	4105S	subtidal	1	24.4		24.4	1.1	26.8	3.290	--
136	HCC-1B	3221	3221I	intertidal	3	24.0		24.0	1.1	26.4	3.273	--
137	HCC-1C	4118	4118 S	subtidal	1	24.0		24.0	1.1	26.4	3.273	--
138	HCC-1B	1209	1209I	intertidal	3	23.9		23.9	1.1	26.3	3.269	--
139	HCC-1B	3212	3212I	intertidal	2	23.8		23.8	1.1	26.2	3.265	--
140	HCC-1A	5107		subtidal	1	23.8	MJ(4)	23.8	1.1	26.1	3.263	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-4. Sampling data used to map injury footprints for Chromium (Cr) in Hylebos Waterway. Injury threshold = 63.5 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
141	HCC-1C	2113	2113 S	subtidal	1	23.7		23.7	1.1	26.1	3.261	--
142	HCC-1B	5209	5209I	intertidal	5	23.7		23.7	1.1	26.1	3.261	--
143	HCC-1B	3211	3211I	intertidal	4	23.6		23.6	1.1	26.0	3.257	--
144	HCC-1B	3201		intertidal	4	23.6	M(4)	23.6	1.1	25.9	3.255	--
145	HCC-1B	3215	3215I	intertidal	2	23.5		23.5	1.1	25.9	3.252	--
146	HCC-1A	5113	5113S	subtidal	1	23.1		23.1	1.1	25.4	3.235	--
147	HCC-1C	5120	5120 S	subtidal	1	22.8		22.8	1.1	25.1	3.222	--
148	HCC-1B	3209	3209I	intertidal	3	22.7		22.7	1.1	25.0	3.218	--
149	HCC-1B	1206	1206I	intertidal	4	22.6		22.6	1.1	24.9	3.213	--
150	HCC-1A	3103	3103S	subtidal	1	22.6		22.6	1.1	24.9	3.213	--
151	HCC-1B	3216	3216I	intertidal	3	22.6		22.6	1.1	24.9	3.213	--
152	HCC-1B	1203	1203I	intertidal	7	22.5		22.5	1.1	24.8	3.209	--
153	HCC-1B	1215	1215I	intertidal	4	22.4		22.4	1.1	24.6	3.204	--
154	HCC-1C	3109	3109 S	subtidal	1	22.3		22.3	1.1	24.5	3.200	--
155	HCC-1A	4108	4108S	subtidal	1	21.8		21.8	1.1	24.0	3.177	--
156	HCC-1B	3206	3206I	intertidal	3	21.7		21.7	1.1	23.9	3.173	--
157	HCC-1A	5102	5102S	subtidal	1	21.2		21.2	1.1	23.3	3.149	--
158	HCC-1B	1202	1202I	intertidal	4	21.0		21.0	1.1	23.1	3.140	--
159	HCC-1B	2213	2213I	intertidal	4	21.0		21.0	1.1	23.1	3.140	--
160	HCC-1B	3203	3203I	intertidal	2	20.8		20.8	1.1	22.9	3.130	--
161	Co-Trustee	HY-01	455	subtidal	1	22.7		22.7	1.0	22.7	3.122	--
162	HCC-1A	4101	4101S	subtidal	1	20.3		20.3	1.1	22.3	3.106	--
163	Co-Trustee	HY-14		subtidal	1	22.3	M	22.3	1.0	22.3	3.105	--
164	HCC-1C	3112	3112 S	subtidal	1	20.1		20.1	1.1	22.1	3.096	--
165	HCC-1A	5105	5105S	subtidal	1	20.0		20.0	1.1	22.0	3.091	--
166	HCC-1B	3219	3219I	intertidal	3	19.9		19.9	1.1	21.9	3.086	--
167	HCC-1C	1119	1119 S	subtidal	1	19.5		19.5	1.1	21.5	3.066	--
168	HCC-1B	3207	3207I	intertidal	2	19.5		19.5	1.1	21.5	3.066	--
169	HCC-1B	3220	3220I	intertidal	3	19.3		19.3	1.1	21.2	3.055	--
170	HCC-1C	5121	5121 S	subtidal	1	19.3		19.3	1.1	21.2	3.055	--
171	HCC-1B	1204	1204I	intertidal	4	19.2		19.2	1.1	21.1	3.050	--
172	HCC-1B	3205	3205I	intertidal	2	19.1		19.1	1.1	21.0	3.045	--
173	HCC-1C	1118	1118 S	subtidal	1	18.8		18.8	1.1	20.7	3.029	--
174	HCC-1C	3107	3107 S	subtidal	1	18.8		18.8	1.1	20.7	3.029	--
175	HCC-1A	4102	4102S	subtidal	1	18.5		18.5	1.1	20.4	3.013	--
176	Co-Trustee	HY-17	61	subtidal	1	20.3		20.3	1.0	20.3	3.011	--
177	HCC-1B	4202	4202I	intertidal	3	18.0		18.0	1.1	19.8	2.986	--
178	HCC-1B	4203	4203I	intertidal	2	18.0		18.0	1.1	19.8	2.986	--
179	HCC-1B	2207	2207I	intertidal	2	17.5		17.5	1.1	19.3	2.958	--
180	HCC-1C	3108		subtidal	1	15.2	M	15.2	1.1	16.7	2.818	--
181	HCC-1B	4201	4201I	intertidal	4	15.1		15.1	1.1	16.6	2.810	--
182	HCC-1B	5214	5214I	intertidal	6	14.6		14.6	1.1	16.1	2.776	--
183	HCC-1C	4116	4116 S	subtidal	1	13.6		13.6	1.1	15.0	2.705	--
184	HCC-1C	1123	1123 S	subtidal	1	12.9		12.9	1.1	14.2	2.653	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-5. Sampling data used to map injury footprints for Copper (Cu) in Hylebos Waterway. Injury threshold = 270 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
1	HCC-1B	5201	5201I	intertidal	2	2030		2030	1.1	2,233.0	7.711	20%
2	HCC-1B	4207	4207I	intertidal	3	1750		1750	1.1	1,925.0	7.563	20%
3	HCC-1B	3214	3214I	intertidal	2	1450	J	1450	1.1	1,595.0	7.375	20%
4	HCC-1B	2202	2202I	intertidal	2	1330		1330	1.1	1,463.0	7.288	20%
5	HCC-1C	5215	5215 I	intertidal	2	1250	J	1250	1.1	1,375.0	7.226	20%
6	HCC-1B	5202	5202I	intertidal	6	954		954	1.1	1,049.4	6.956	15%
7	HCC-1B	1216	1216I	intertidal	3	949		949	1.1	1,043.9	6.951	15%
8	HCC-1B	1217	1217I	intertidal	5	934		934	1.1	1,027.4	6.935	15%
9	HCC-1B	1212	1212I	intertidal	2	921		921	1.1	1,013.1	6.921	15%
10	HCC-1C	4118	4118 S	subtidal	1	840		840	1.1	924.0	6.829	15%
11	HCC-1B	4205	4205I	intertidal	3	809	J	809	1.1	889.9	6.791	15%
12	HCC-1B	5203	5203I	intertidal	2	775		775	1.1	852.5	6.748	15%
13	HCC-1B	3206	3206I	intertidal	3	703	J	703	1.1	773.3	6.651	15%
14	HCC-1B	3215	3215I	intertidal	2	657	J	657	1.1	722.7	6.583	15%
15	HCC-1B	3221	3221I	intertidal	3	471		471	1.1	518.1	6.250	10%
16	HCC-1B	5206	5206I	intertidal	2	296		296	1.1	325.6	5.786	5%
17	HCC-1B	5210		intertidal	2	276		276	1.1	303.6	5.716	5%
18	HCC-1C	2112	2112 S	subtidal	1	255		255	1.1	280.5	5.637	5%
19	HCC-1A	1105	1105S	subtidal	1	251		251	1.1	276.1	5.621	5%
20	HCC-1B	3210	3210I	intertidal	2	246	J	246	1.1	270.6	5.601	5%
21	HCC-1A	5113	5113S	subtidal	1	239		239	1.1	262.9	5.572	--
22	HCC-1C	1117	1117 S	subtidal	1	217		217	1.1	238.7	5.475	--
23	HCC-1B	2211	2211I	intertidal	2	215		215	1.1	236.5	5.466	--
24	HCC-1C	4120	4120 S	subtidal	1	212		212	1.1	233.2	5.452	--
25	HCC-1B	2212	2212I	intertidal	3	199		199	1.1	218.9	5.389	--
26	HCC-1A	1102	1102S	subtidal	1	192		192	1.1	211.2	5.353	--
27	HCC-1A	1101		subtidal	1	186.3	M(4)	186.3	1.1	204.9	5.322	--
28	HCC-1A	1103	1103S	subtidal	1	172		172	1.1	189.2	5.243	--
29	HCC-1C	1126	1126 S	subtidal	1	168		168	1.1	184.8	5.219	--
30	Co-Trustee	HY-25	207	subtidal	1	183.9		183.9	1.0	183.9	5.214	--
31	HCC-1A	2105	2105S	subtidal	1	165		165	1.1	181.5	5.201	--
32	Co-Trustee	HY-26	222	subtidal	1	180.7		180.7	1.0	180.7	5.197	--
33	HCC-1B	3216	3216I	intertidal	3	163	J	163	1.1	179.3	5.189	--
34	HCC-1C	1124	1124 S	subtidal	1	161.0		161.0	1.1	177.1	5.177	--
35	HCC-1A	5101	5101S	subtidal	1	161		161	1.1	177.1	5.177	--
36	HCC-1A	2104	2104S	subtidal	1	159		159	1.1	174.9	5.164	--
37	HCC-1C	1121	1121 S	subtidal	1	156		156	1.1	171.6	5.145	--
38	HCC-1A	2102	2102S	subtidal	1	156		156	1.1	171.6	5.145	--
39	HCC-1B	2210	2210I	intertidal	5	156		156	1.1	171.6	5.145	--
40	HCC-1A	1107	1107S	subtidal	1	155		155	1.1	170.5	5.139	--
41	HCC-1A	2103	2103S	subtidal	1	154		154	1.1	169.4	5.132	--
42	Co-Trustee	HY-23	176	subtidal	1	165.5		165.5	1.0	165.5	5.109	--
43	HCC-1C	1122	1122 S	subtidal	1	149		149	1.1	163.9	5.099	--
44	HCC-1C	2115	2115 S	subtidal	1	147		147	1.1	161.7	5.086	--
45	HCC-1B	4204	4204I	intertidal	4	147		147	1.1	161.7	5.086	--
46	HCC-1B	1208	1208I	intertidal	2	146		146	1.1	160.6	5.079	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-5. Sampling data used to map injury footprints for Copper (Cu) in Hylebos Waterway. Injury threshold = 270 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
47	HCC-1A	1111	1111S	subtidal	1	145		145	1.1	159.5	5.072	--
48	HCC-1A	2107	2107S	subtidal	1	145		145	1.1	159.5	5.072	--
49	HCC-1B	5208	5208I	intertidal	2	143		143	1.1	157.3	5.058	--
50	HCC-1A	1106	1106S	subtidal	1	141		141	1.1	155.1	5.044	--
51	Co-Trustee	HY-20	130	subtidal	1	154.6		154.6	1.0	154.6	5.041	--
52	HCC-1A	1108	1108S	subtidal	1	140		140	1.1	154.0	5.037	--
53	Co-Trustee	HY-03	428	subtidal	1	154	M	154	1.0	154.0	5.037	--
54	Co-Trustee	HY-24	194	subtidal	1	151.3		151.3	1.0	151.3	5.019	--
55	HCC-1A	1110	1110S	subtidal	1	137		137	1.1	150.7	5.015	--
56	HCC-1C	1133	1133 S	subtidal	1	137		137	1.1	150.7	5.015	--
57	HCC-1C	4117	4117 S	subtidal	1	137		137	1.1	150.7	5.015	--
58	HCC-1A	4110	4110S	subtidal	1	136		136	1.1	149.6	5.008	--
59	Co-Trustee	HY-21	141	subtidal	1	146.6		146.6	1.0	146.6	4.988	--
60	HCC-1A	5114	5114S	subtidal	1	133		133	1.1	146.3	4.986	--
61	HCC-1A	1104	1104S	subtidal	1	129		129	1.1	141.9	4.955	--
62	HCC-1A	2110	2110S	subtidal	1	128		128	1.1	140.8	4.947	--
63	HCC-1C	2114	2114 S	subtidal	1	128		128	1.1	140.8	4.947	--
64	Co-Trustee	HY-28	270	subtidal	1	139.7		139.7	1.0	139.7	4.939	--
65	HCC-1A	4109		subtidal	1	125.5	M(4)	126	1.1	138.1	4.928	--
66	HCC-1A	1113	1113S	subtidal	1	124		124	1.1	136.4	4.916	--
67	HCC-1A	2101	2101S	subtidal	1	124		124	1.1	136.4	4.916	--
68	HCC-1A	2108	2108S	subtidal	1	124		124	1.1	136.4	4.916	--
69	HCC-1C	3107	3107 S	subtidal	1	124		124	1.1	136.4	4.916	--
70	HCC-1A	2109	2109S	subtidal	1	123		123	1.1	135.3	4.907	--
71	HCC-1A	3105	3105S	subtidal	1	122		122	1.1	134.2	4.899	--
72	HCC-1A	3106	3106S	subtidal	1	122		122	1.1	134.2	4.899	--
73	HCC-1A	4107	4107S	subtidal	1	122		122	1.1	134.2	4.899	--
74	HCC-1A	2106	2106S	subtidal	1	121		121	1.1	133.1	4.891	--
75	HCC-1B	5211	5211I	intertidal	2	120		120	1.1	132.0	4.883	--
76	Co-Trustee	HY-19		subtidal	1	127.5	M(3)	127.5	1.0	127.5	4.848	--
77	HCC-1C	3110	3110 S	subtidal	1	114.0		114	1.1	125.4	4.832	--
78	HCC-1A	4106	4106S	subtidal	1	114		114	1.1	125.4	4.832	--
79	Co-Trustee	HY-16	43	subtidal	1	125.1		125.1	1.0	125.1	4.829	--
80	HCC-1B	2209	2209I	intertidal	2	113		113	1.1	124.3	4.823	--
81	HCC-1A	3101	3101S	subtidal	1	113		113	1.1	124.3	4.823	--
82	HCC-1B	5209	5209I	intertidal	5	113		113	1.1	124.3	4.823	--
83	HCC-1A	2111	2111S	subtidal	1	112		112	1.1	123.2	4.814	--
84	Co-Trustee	HY-18	77	subtidal	1	121.1		121.1	1.0	121.1	4.797	--
85	HCC-1B	2215	2215I	intertidal	7	108		108	1.1	118.8	4.777	--
86	HCC-1A	4111	4111S	subtidal	1	106		106	1.1	116.6	4.759	--
87	HCC-1C	3109	3109 S	subtidal	1	105		105	1.1	115.5	4.749	--
88	Co-Trustee	HY-27	243	subtidal	1	114.7		114.7	1.0	114.7	4.742	--
89	Co-Trustee	HY-15	33	subtidal	1	114.6		114.6	1.0	114.6	4.741	--
90	Co-Trustee	HY-22	159	subtidal	1	114.2		114.2	1.0	114.2	4.738	--
91	HCC-1A	5111	5111S	subtidal	1	103		103	1.1	113.3	4.730	--
92	HCC-1A	4104	4104S	subtidal	1	102		102	1.1	112.2	4.720	--
93	HCC-1A	1112	1112S	subtidal	1	101		101	1.1	111.1	4.710	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-5. Sampling data used to map injury footprints for Copper (Cu) in Hylebos Waterway. Injury threshold = 270 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
94	HCC-1A	5110	5110S	subtidal	1	101		101	1.1	111.1	4.710	--
95	Co-Trustee	HY-10	338	subtidal	1	110.4		110.4	1.0	110.4	4.704	--
96	HCC-1B	5213	5213I	intertidal	4	100		100	1.1	110.0	4.700	--
97	HCC-1A	5115	5115S	subtidal	1	99.7		99.7	1.1	109.7	4.697	--
98	HCC-1A	5112	5112S	subtidal	1	99.6		99.6	1.1	109.6	4.696	--
99	HCC-1A	3104	3104S	subtidal	1	99.5		99.5	1.1	109.5	4.695	--
100	HCC-1A	5116	5116S	subtidal	1	98		98	1.1	107.8	4.680	--
101	HCC-1A	1109	1109S	subtidal	1	97.3		97.3	1.1	107.0	4.673	--
102	HCC-1A	4115	4115S	subtidal	1	96.9		96.9	1.1	106.6	4.669	--
103	HCC-1A	5103	5103S	subtidal	1	95.4		95.4	1.1	104.9	4.653	--
104	HCC-1B	1213	1213I	intertidal	4	95.0		95.0	1.1	104.5	4.649	--
105	HCC-1A	5109	5109S	subtidal	1	94.4		94.4	1.1	103.8	4.643	--
106	HCC-1B	3212	3212I	intertidal	2	94.0	J	94.0	1.1	103.4	4.639	--
107	HCC-1B	5207	5207I	intertidal	2	91.9		91.9	1.1	101.1	4.616	--
108	HCC-1A	3102	3102S	subtidal	1	89.8		89.8	1.1	98.8	4.593	--
109	Co-Trustee	HY-04	418	subtidal	1	98.0		98.0	1.0	98.0	4.585	--
110	HCC-1B	5205	5205I	intertidal	2	87.4		87.4	1.1	96.1	4.566	--
111	HCC-1C	3112	3112 S	subtidal	1	86.2		86.2	1.1	94.8	4.552	--
112	HCC-1B	2214	2214I	intertidal	2	85.4		85.4	1.1	93.9	4.543	--
113	HCC-1A	5106	5106S	subtidal	1	85.0		85.0	1.1	93.5	4.538	--
114	HCC-1B	1201		intertidal	2	84.9	M(4)	84.9	1.1	93.4	4.536	--
115	HCC-1B	4209	4209I	intertidal	2	84.6		84.6	1.1	93.1	4.533	--
116	HCC-1C	1125	1125 S	subtidal	1	84.5		85	1.1	93.0	4.532	--
117	HCC-1C	2113	2113 S	subtidal	1	83.7		83.7	1.1	92.1	4.523	--
118	HCC-1C	1120	1120 S	subtidal	1	82.7		83	1.1	91.0	4.511	--
119	HCC-1C	4119	4119 S	subtidal	1	81.6		81.6	1.1	89.8	4.497	--
120	Co-Trustee	HY-12	279	subtidal	1	89.7		89.7	1.0	89.7	4.496	--
121	HCC-1A	5108	5108S	subtidal	1	80.8		80.8	1.1	88.9	4.487	--
122	HCC-1A	4103	4103S	subtidal	1	79.2		79.2	1.1	87.1	4.467	--
123	HCC-1B	4208	4208I	intertidal	3	78.6	JM(4)	78.6	1.1	86.5	4.460	--
124	HCC-1A	5104	5104S	subtidal	1	76.4		76.4	1.1	84.0	4.431	--
125	Co-Trustee	HY-09	350	subtidal	1	84.0		84.0	1.0	84.0	4.431	--
126	Co-Trustee	HY-11	297	subtidal	1	83.7		83.7	1.0	83.7	4.427	--
127	HCC-1B	1207	1207I	intertidal	2	75.6		75.6	1.1	83.2	4.421	--
128	Co-Trustee	HY-08	318	subtidal	1	82.3		82.3	1.0	82.3	4.410	--
129	HCC-1B	4206	4206I	intertidal	3	74.4	J	74.4	1.1	81.8	4.405	--
130	Co-Trustee	HY-06		subtidal	1	81.0	M(3)	81.0	1.0	81.0	4.394	--
131	HCC-1B	3213	3213I	intertidal	2	73.5	J	73.5	1.1	80.9	4.393	--
132	Co-Trustee	HY-05	383	subtidal	1	80.2		80.2	1.0	80.2	4.385	--
133	HCC-1A	5107		subtidal	1	72.2	M(4)	72	1.1	79.4	4.375	--
134	HCC-1C	5120	5120 S	subtidal	1	72.2		72	1.1	79.4	4.375	--
135	HCC-1B	2208	2208I	intertidal	2	71.4		71.4	1.1	78.5	4.364	--
136	HCC-1C	1119	1119 S	subtidal	1	69.6		69.6	1.1	76.6	4.338	--
137	Co-Trustee	HY-02	442	subtidal	1	76.4		76.4	1.0	76.4	4.336	--
138	Co-Trustee	HY-07	351	subtidal	1	76.1		76.1	1.0	76.1	4.332	--
139	HCC-1B	2206	2206I	intertidal	6	67.1		67.1	1.1	73.8	4.301	--
140	HCC-1A	4101	4101S	subtidal	1	66.6		66.6	1.1	73.3	4.294	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-5. Sampling data used to map injury footprints for Copper (Cu) in Hylebos Waterway. Injury threshold = 270 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
141	HCC-1C	1118	1118 S	subtidal	1	64.8		64.8	1.1	71.3	4.267	--
142	HCC-1B	3211	3211I	intertidal	4	63.6	J	63.6	1.1	70.0	4.248	--
143	HCC-1B	2213	2213I	intertidal	4	63.3		63.3	1.1	69.6	4.243	--
144	HCC-1B	2205	2205I	intertidal	3	61.1		61.1	1.1	67.2	4.208	--
145	Co-Trustee	HY-14		subtidal	1	66.3	M	66.3	1.0	66.3	4.193	--
146	HCC-1B	1215	1215I	intertidal	4	59.5		59.5	1.1	65.5	4.181	--
147	HCC-1A	5102	5102S	subtidal	1	59.3		59.3	1.1	65.2	4.178	--
148	HCC-1B	3204	3204I	intertidal	3	55.4	J	55.4	1.1	60.9	4.110	--
149	HCC-1A	4108	4108S	subtidal	1	54.4	J	54.4	1.1	59.8	4.092	--
150	Co-Trustee	HY-13	10	subtidal	1	59.2		59.2	1.0	59.2	4.081	--
151	HCC-1A	3103	3103S	subtidal	1	53.7		53.7	1.1	59.1	4.079	--
152	HCC-1A	4105	4105S	subtidal	1	52.7	J	52.7	1.1	58.0	4.060	--
153	HCC-1B	2204	2204I	intertidal	4	52.3		52.3	1.1	57.5	4.052	--
154	HCC-1C	5121	5121 S	subtidal	1	52.3		52.3	1.1	57.5	4.052	--
155	HCC-1A	5105	5105S	subtidal	1	49.5		49.5	1.1	54.5	3.997	--
156	HCC-1B	1214	1214I	intertidal	3	48.9		48.9	1.1	53.8	3.985	--
157	HCC-1B	5214	5214I	intertidal	6	46.2	J	46.2	1.1	50.8	3.928	--
158	HCC-1B	3209	3209I	intertidal	3	45.5	J	45.5	1.1	50.1	3.913	--
159	HCC-1B	3217	3217I	intertidal	2	44.9	J	44.9	1.1	49.4	3.900	--
160	HCC-1A	4102	4102S	subtidal	1	44.8		44.8	1.1	49.3	3.898	--
161	Co-Trustee	HY-01	455	subtidal	1	48.5		48.5	1.0	48.5	3.882	--
162	HCC-1B	1206	1206I	intertidal	4	43.7		43.7	1.1	48.1	3.873	--
163	HCC-1B	3205	3205I	intertidal	2	40.2	J	40.2	1.1	44.2	3.789	--
164	HCC-1B	1203	1203I	intertidal	7	39.8		39.8	1.1	43.8	3.779	--
165	HCC-1B	4210	4210I	intertidal	3	39.5		39.5	1.1	43.5	3.772	--
166	Co-Trustee	HY-17	61	subtidal	1	43.4		43.4	1.0	43.4	3.771	--
167	HCC-1B	1211	1211I	intertidal	2	39.4		39.4	1.1	43.3	3.769	--
168	HCC-1B	3203	3203I	intertidal	2	35.6	J	35.6	1.1	39.2	3.668	--
169	HCC-1B	1210	1210I	intertidal	2	33.9		33.9	1.1	37.3	3.619	--
170	HCC-1B	1202	1202I	intertidal	4	33.8		33.8	1.1	37.2	3.616	--
171	HCC-1B	3219	3219I	intertidal	3	33.8	J	33.8	1.1	37.2	3.616	--
172	HCC-1B	5212	5212I	intertidal	6	33.2		33.2	1.1	36.5	3.598	--
173	HCC-1C	4116	4116 S	subtidal	1	33.1		33.1	1.1	36.4	3.595	--
174	HCC-1B	4202	4202I	intertidal	3	31.1		31.1	1.1	34.2	3.533	--
175	HCC-1B	1204	1204I	intertidal	4	31.0		31.0	1.1	34.1	3.529	--
176	HCC-1B	4201	4201I	intertidal	4	30.4		30.4	1.1	33.4	3.510	--
177	HCC-1B	3201		intertidal	4	29.7	JM(4)	29.7	1.1	32.7	3.486	--
178	HCC-1C	3108		subtidal	1	28.7	M	28.7	1.1	31.6	3.453	--
179	HCC-1B	1209	1209I	intertidal	3	28.4		28.4	1.1	31.2	3.442	--
180	HCC-1C	1123	1123 S	subtidal	1	27.3		27.3	1.1	30.0	3.402	--
181	HCC-1B	3207	3207I	intertidal	2	26.5		26.5	1.1	29.2	3.372	--
182	HCC-1B	2207	2207I	intertidal	2	22.2		22.2	1.1	24.4	3.195	--
183	HCC-1B	3220	3220I	intertidal	3	20.3	J	20.3	1.1	22.3	3.106	--
184	HCC-1B	4203	4203I	intertidal	2	18.9		18.9	1.1	20.8	3.034	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-6. Sampling data used to map injury footprints for Mercury (Hg) in Hylebos Waterway. Injury threshold = 410 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	2206	2206I	intertidal	6	4.50		4500.0	1.1	4,950.0	8.507	20%
2	HCC-1B	5206	5206I	intertidal	2	2.10		2100.0	1.1	2,310.0	7.745	20%
3	HCC-1C	2114	2114 S	subtidal	1	1.90		1900.0	1.1	2,090.0	7.645	15%
4	HCC-1B	5205	5205I	intertidal	2	0.99		990.0	1.1	1,089.0	6.993	5%
5	HCC-1A	5113	5113S	subtidal	1	0.97		970.0	1.1	1,067.0	6.973	5%
6	HCC-1B	3214	3214I	intertidal	2	0.96		960.0	1.1	1,056.0	6.962	5%
7	Co-Trustee	HY-26	222	subtidal	1	1.00		997.0	1.0	997.0	6.905	5%
8	Co-Trustee	HY-24	194	subtidal	1	0.98		976.0	1.0	976.0	6.883	5%
9	Co-Trustee	HY-25	207	subtidal	1	0.91		911.0	1.0	911.0	6.815	5%
10	HCC-1B	5203	5203I	intertidal	2	0.75		750.0	1.1	825.0	6.715	5%
11	HCC-1A	2105	2105S	subtidal	1	0.74	J	740.0	1.1	814.0	6.702	5%
12	HCC-1A	2107	2107S	subtidal	1	0.74	J	740.0	1.1	814.0	6.702	5%
13	Co-Trustee	HY-21	141	subtidal	1	0.80		801.0	1.0	801.0	6.686	5%
14	HCC-1B	5210		intertidal	2	0.69		690.0	1.1	759.0	6.632	5%
15	Co-Trustee	HY-20	130	subtidal	1	0.76		759.0	1.0	759.0	6.632	5%
16	HCC-1B	2211	2211I	intertidal	2	0.68		680.0	1.1	748.0	6.617	5%
17	Co-Trustee	HY-28	270	subtidal	1	0.75		747.0	1.0	747.0	6.616	5%
18	HCC-1A	2104	2104S	subtidal	1	0.66		660.0	1.1	726.0	6.588	5%
19	HCC-1A	2103	2103S	subtidal	1	0.60	J	600.0	1.1	660.0	6.492	5%
20	Co-Trustee	HY-19		subtidal	1	0.64	M(3)	644.0	1.0	644.0	6.468	5%
21	HCC-1C	2115	2115 S	subtidal	1	0.58		580.0	1.1	638.0	6.458	5%
22	Co-Trustee	HY-27	243	subtidal	1	0.62		619.0	1.0	619.0	6.428	5%
23	Co-Trustee	HY-22	159	subtidal	1	0.61		605.0	1.0	605.0	6.405	5%
24	HCC-1A	2102	2102S	subtidal	1	0.54		540.0	1.1	594.0	6.387	5%
25	HCC-1A	4105	4105S	subtidal	1	0.53		530.0	1.1	583.0	6.368	5%
26	Co-Trustee	HY-23	176	subtidal	1	0.58		578.0	1.0	578.0	6.360	5%
27	Co-Trustee	HY-18	77	subtidal	1	0.56		558.0	1.0	558.0	6.324	5%
28	HCC-1C	2113	2113 S	subtidal	1	0.50		500.0	1.1	550.0	6.310	5%
29	HCC-1A	1107	1107S	subtidal	1	0.48	J	480.0	1.1	528.0	6.269	5%
30	Co-Trustee	HY-16	43	subtidal	1	0.53		528.0	1.0	528.0	6.269	5%
31	HCC-1C	1124	1124 S	subtidal	1	0.45		450.0	1.1	495.0	6.205	5%
32	Co-Trustee	HY-08	318	subtidal	1	0.49		487.0	1.0	487.0	6.188	5%
33	HCC-1A	1102	1102S	subtidal	1	0.44	J	440.0	1.1	484.0	6.182	5%
34	HCC-1A	5108	5108S	subtidal	1	0.44		440.0	1.1	484.0	6.182	5%
35	HCC-1A	2110	2110S	subtidal	1	0.43		430.0	1.1	473.0	6.159	5%
36	Co-Trustee	HY-15	33	subtidal	1	0.46		459.0	1.0	459.0	6.129	5%
37	HCC-1A	1103	1103S	subtidal	1	0.41		410.0	1.1	451.0	6.111	5%
38	HCC-1A	1105	1105S	subtidal	1	0.41		410.0	1.1	451.0	6.111	5%
39	HCC-1A	2111	2111S	subtidal	1	0.41		410.0	1.1	451.0	6.111	5%
40	HCC-1C	1133	1133 S	subtidal	1	0.40		400.0	1.1	440.0	6.087	5%
41	HCC-1A	2101	2101S	subtidal	1	0.40		400.0	1.1	440.0	6.087	5%
42	HCC-1B	1212	1212I	intertidal	2	0.39		390.0	1.1	429.0	6.061	5%
43	HCC-1A	2108	2108S	subtidal	1	0.39	J	390.0	1.1	429.0	6.061	5%
44	HCC-1B	2212	2212I	intertidal	3	0.39		390.0	1.1	429.0	6.061	5%
45	HCC-1A	5106	5106S	subtidal	1	0.39		390.0	1.1	429.0	6.061	5%
46	HCC-1A	5114	5114S	subtidal	1	0.39		390.0	1.1	429.0	6.061	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-6. Sampling data used to map injury footprints for Mercury (Hg) in Hylebos Waterway. Injury threshold = 410 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	HCC-1A	1108	1108S	subtidal	1	0.38		380.0	1.1	418.0	6.035	5%
48	HCC-1A	1110	1110S	subtidal	1	0.37		370.0	1.1	407.0	6.009	--
49	HCC-1A	1111	1111S	subtidal	1	0.37		370.0	1.1	407.0	6.009	--
50	HCC-1A	2109	2109S	subtidal	1	0.37	J	370.0	1.1	407.0	6.009	--
51	HCC-1A	1101		subtidal	1	0.37	JM(4)	367.5	1.1	404.3	6.002	--
52	HCC-1A	1106	1106S	subtidal	1	0.36		360.0	1.1	396.0	5.981	--
53	HCC-1A	2106	2106S	subtidal	1	0.36	J	360.0	1.1	396.0	5.981	--
54	HCC-1A	3106	3106S	subtidal	1	0.36		360.0	1.1	396.0	5.981	--
55	HCC-1A	4101	4101S	subtidal	1	0.36		360.0	1.1	396.0	5.981	--
56	HCC-1B	4210	4210I	intertidal	3	0.36		360.0	1.1	396.0	5.981	--
57	Co-Trustee	HY-10	338	subtidal	1	0.40		395.0	1.0	395.0	5.979	--
58	Co-Trustee	HY-12	279	subtidal	1	0.39		392.0	1.0	392.0	5.971	--
59	HCC-1B	3206	3206I	intertidal	3	0.35		350.0	1.1	385.0	5.953	--
60	HCC-1A	3105	3105S	subtidal	1	0.34		340.0	1.1	374.0	5.924	--
61	HCC-1C	3110	3110 S	subtidal	1	0.34		340.0	1.1	374.0	5.924	--
62	HCC-1B	4205	4205I	intertidal	3	0.34		340.0	1.1	374.0	5.924	--
63	HCC-1B	4209	4209I	intertidal	2	0.34		340.0	1.1	374.0	5.924	--
64	HCC-1A	4109		subtidal	1	0.33	JM(4)	332.5	1.1	365.8	5.902	--
65	Co-Trustee	HY-06	364	subtidal	1	0.37		365.0	1.0	365.0	5.900	--
66	HCC-1A	1104	1104S	subtidal	1	0.32		320.0	1.1	352.0	5.864	--
67	HCC-1C	1121	1121 S	subtidal	1	0.32		320.0	1.1	352.0	5.864	--
68	HCC-1C	4120	4120 S	subtidal	1	0.32		320.0	1.1	352.0	5.864	--
69	Co-Trustee	HY-11	297	subtidal	1	0.35		348.0	1.0	348.0	5.852	--
70	HCC-1A	1113	1113S	subtidal	1	0.31		310.0	1.1	341.0	5.832	--
71	HCC-1C	2112	2112 S	subtidal	1	0.31		310.0	1.1	341.0	5.832	--
72	HCC-1A	5115	5115S	subtidal	1	0.31		310.0	1.1	341.0	5.832	--
73	HCC-1A	5111	5111S	subtidal	1	0.30		300.0	1.1	330.0	5.799	--
74	HCC-1C	1117	1117 S	subtidal	1	0.29		290.0	1.1	319.0	5.765	--
75	HCC-1A	3101	3101S	subtidal	1	0.29		290.0	1.1	319.0	5.765	--
76	HCC-1B	5201	5201I	intertidal	2	0.29		290.0	1.1	319.0	5.765	--
77	Co-Trustee	HY-09	350	subtidal	1	0.32		317.0	1.0	317.0	5.759	--
78	Co-Trustee	HY-03	428	subtidal	1	0.32	M	316.5	1.0	316.5	5.757	--
79	HCC-1A	4110	4110S	subtidal	1	0.28		280.0	1.1	308.0	5.730	--
80	Co-Trustee	HY-02	442	subtidal	1	0.30		304.0	1.0	304.0	5.717	--
81	HCC-1C	1125	1125 S	subtidal	1	0.27		270.0	1.1	297.0	5.694	--
82	HCC-1A	4107	4107S	subtidal	1	0.27		270.0	1.1	297.0	5.694	--
83	HCC-1A	1109	1109S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
84	HCC-1A	1112	1112S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
85	HCC-1B	2215	2215I	intertidal	7	0.25		250.0	1.1	275.0	5.617	--
86	HCC-1A	4106	4106S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
87	HCC-1A	4111	4111S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
88	HCC-1A	4115	4115S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
89	HCC-1A	5110	5110S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
90	HCC-1A	5116	5116S	subtidal	1	0.25		250.0	1.1	275.0	5.617	--
91	HCC-1B	5208	5208I	intertidal	2	0.25		250.0	1.1	275.0	5.617	--
92	Co-Trustee	HY-05	383	subtidal	1	0.27		268.0	1.0	268.0	5.591	--
93	Co-Trustee	HY-04	418	subtidal	1	0.26		255.0	1.0	255.0	5.541	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-6. Sampling data used to map injury footprints for Mercury (Hg) in Hylebos Waterway. Injury threshold = 410 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
94	HCC-1B	2205	2205I	intertidal	3	0.23		230.0	1.1	253.0	5.533	--
95	HCC-1C	4119	4119 S	subtidal	1	0.23		230.0	1.1	253.0	5.533	--
96	Co-Trustee	HY-14		subtidal	1	0.25	M	246.5	1.0	246.5	5.507	--
97	HCC-1C	1120	1120 S	subtidal	1	0.22		220.0	1.1	242.0	5.489	--
98	HCC-1A	3104	3104S	subtidal	1	0.22		220.0	1.1	242.0	5.489	--
99	HCC-1C	3112	3112 S	subtidal	1	0.22		220.0	1.1	242.0	5.489	--
100	HCC-1C	4116	4116 S	subtidal	1	0.22		220.0	1.1	242.0	5.489	--
101	HCC-1A	5112	5112S	subtidal	1	0.22		220.0	1.1	242.0	5.489	--
102	Co-Trustee	HY-07	351	subtidal	1	0.24		241.0	1.0	241.0	5.485	--
103	Co-Trustee	HY-13	10	subtidal	1	0.24		239.0	1.0	239.0	5.476	--
104	HCC-1B	1215	1215I	intertidal	4	0.21		210.0	1.1	231.0	5.442	--
105	HCC-1C	3109	3109 S	subtidal	1	0.21		210.0	1.1	231.0	5.442	--
106	HCC-1B	5202	5202I	intertidal	6	0.21		210.0	1.1	231.0	5.442	--
107	HCC-1B	4208	4208I	intertidal	3	0.20	M	202.5	1.1	222.8	5.406	--
108	Co-Trustee	HY-01	455	subtidal	1	0.22		222.0	1.0	222.0	5.403	--
109	HCC-1A	3102	3102S	subtidal	1	0.20		200.0	1.1	220.0	5.394	--
110	HCC-1B	3215	3215I	intertidal	2	0.20		200.0	1.1	220.0	5.394	--
111	HCC-1A	4103	4103S	subtidal	1	0.20		200.0	1.1	220.0	5.394	--
112	HCC-1A	4104	4104S	subtidal	1	0.20		200.0	1.1	220.0	5.394	--
113	HCC-1B	4202	4202I	intertidal	3	0.20		200.0	1.1	220.0	5.394	--
114	HCC-1A	5104	5104S	subtidal	1	0.20		200.0	1.1	220.0	5.394	--
115	HCC-1C	1122	1122 S	subtidal	1	0.19		190.0	1.1	209.0	5.342	--
116	HCC-1A	5107		subtidal	1	0.19	M(4)	190.0	1.1	209.0	5.342	--
117	Co-Trustee	HY-17	61	subtidal	1	0.21		207.0	1.0	207.0	5.333	--
118	HCC-1A	5109	5109S	subtidal	1	0.18		180.0	1.1	198.0	5.288	--
119	HCC-1C	5215	5215 I	intertidal	2	0.18		180.0	1.1	198.0	5.288	--
120	HCC-1B	1208	1208I	intertidal	2	0.16		160.0	1.1	176.0	5.170	--
121	HCC-1A	5103	5103S	subtidal	1	0.16		160.0	1.1	176.0	5.170	--
122	HCC-1A	5105	5105S	subtidal	1	0.16		160.0	1.1	176.0	5.170	--
123	HCC-1C	5120	5120 S	subtidal	1	0.15		150.0	1.1	165.0	5.106	--
124	HCC-1B	2214	2214I	intertidal	2	0.14		140.0	1.1	154.0	5.037	--
125	HCC-1B	3210	3210I	intertidal	2	0.14		140.0	1.1	154.0	5.037	--
126	HCC-1A	5101	5101S	subtidal	1	0.14		140.0	1.1	154.0	5.037	--
127	HCC-1C	5121	5121 S	subtidal	1	0.14		140.0	1.1	154.0	5.037	--
128	HCC-1B	5207	5207I	intertidal	2	0.14		140.0	1.1	154.0	5.037	--
129	HCC-1B	5209	5209I	intertidal	5	0.14		140.0	1.1	154.0	5.037	--
130	HCC-1C	3107	3107 S	subtidal	1	0.13		130.0	1.1	143.0	4.963	--
131	HCC-1B	3216	3216I	intertidal	3	0.13		130.0	1.1	143.0	4.963	--
132	HCC-1C	4117	4117 S	subtidal	1	0.13		130.0	1.1	143.0	4.963	--
133	HCC-1B	5211	5211I	intertidal	2	0.13		130.0	1.1	143.0	4.963	--
134	HCC-1C	1118	1118 S	subtidal	1	0.12		120.0	1.1	132.0	4.883	--
135	HCC-1B	1201		intertidal	2	0.12	M(4)	120.0	1.1	132.0	4.883	--
136	HCC-1B	1216	1216I	intertidal	3	0.12		120.0	1.1	132.0	4.883	--
137	HCC-1B	2210	2210I	intertidal	5	0.12		120.0	1.1	132.0	4.883	--
138	HCC-1C	4118	4118 S	subtidal	1	0.12		120.0	1.1	132.0	4.883	--
139	HCC-1A	5102	5102S	subtidal	1	0.12		120.0	1.1	132.0	4.883	--
140	HCC-1B	3217	3217I	intertidal	2	0.11		110.0	1.1	121.0	4.796	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-6. Sampling data used to map injury footprints for Mercury (Hg) in Hylebos Waterway. Injury threshold = 410 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
141	HCC-1C	1123	1123 S	subtidal	1	0.10		100.0	1.1	110.0	4.700	--
142	HCC-1C	1126	1126 S	subtidal	1	0.10		100.0	1.1	110.0	4.700	--
143	HCC-1B	1213	1213I	intertidal	4	0.10		100.0	1.1	110.0	4.700	--
144	HCC-1B	2204	2204I	intertidal	4	0.10		100.0	1.1	110.0	4.700	--
145	HCC-1A	3103	3103S	subtidal	1	0.10		100.0	1.1	110.0	4.700	--
146	HCC-1B	3204	3204I	intertidal	3	0.10		100.0	1.1	110.0	4.700	--
147	HCC-1B	3212	3212I	intertidal	2	0.10		100.0	1.1	110.0	4.700	--
148	HCC-1B	3213	3213I	intertidal	2	0.10		100.0	1.1	110.0	4.700	--
149	HCC-1B	2202	2202I	intertidal	2	0.09		90.0	1.1	99.0	4.595	--
150	HCC-1A	4102	4102S	subtidal	1	0.09		90.0	1.1	99.0	4.595	--
151	HCC-1A	4108	4108S	subtidal	1	0.09		90.0	1.1	99.0	4.595	--
152	HCC-1B	5214	5214I	intertidal	6	0.09		90.0	1.1	99.0	4.595	--
153	HCC-1C	1119	1119 S	subtidal	1	0.08		80.0	1.1	88.0	4.477	--
154	HCC-1B	1211	1211I	intertidal	2	0.08		80.0	1.1	88.0	4.477	--
155	HCC-1B	3205	3205I	intertidal	2	0.08		80.0	1.1	88.0	4.477	--
156	HCC-1B	5212	5212I	intertidal	6	0.08		80.0	1.1	88.0	4.477	--
157	HCC-1B	1203	1203I	intertidal	7	0.07		70.0	1.1	77.0	4.344	--
158	HCC-1B	1204	1204I	intertidal	4	0.07		70.0	1.1	77.0	4.344	--
159	HCC-1B	1207	1207I	intertidal	2	0.07		70.0	1.1	77.0	4.344	--
160	HCC-1B	1210	1210I	intertidal	2	0.06		60.0	1.1	66.0	4.190	--
161	HCC-1B	2207	2207I	intertidal	2	0.06		60.0	1.1	66.0	4.190	--
162	HCC-1B	2208	2208I	intertidal	2	0.06		60.0	1.1	66.0	4.190	--
163	HCC-1C	3108		subtidal	1	0.05	M	48.3	1.1	53.2	3.973	--
164	HCC-1B	1206	1206I	intertidal	4	0.08	U	40.0	1.1	44.0	3.784	--
165	HCC-1B	1209	1209I	intertidal	3	0.08	U	40.0	1.1	44.0	3.784	--
166	HCC-1B	1202	1202I	intertidal	4	0.07	U	35.0	1.1	38.5	3.651	--
167	HCC-1B	1217	1217I	intertidal	5	0.07	U	35.0	1.1	38.5	3.651	--
168	HCC-1B	2209	2209I	intertidal	2	0.07	U	35.0	1.1	38.5	3.651	--
169	HCC-1B	3211	3211I	intertidal	4	0.07	U	35.0	1.1	38.5	3.651	--
170	HCC-1B	3219	3219I	intertidal	3	0.07	U	35.0	1.1	38.5	3.651	--
171	HCC-1B	4203	4203I	intertidal	2	0.07	U	35.0	1.1	38.5	3.651	--
172	HCC-1B	4204	4204I	intertidal	4	0.07	U	35.0	1.1	38.5	3.651	--
173	HCC-1B	4206	4206I	intertidal	3	0.07	U	35.0	1.1	38.5	3.651	--
174	HCC-1B	5213	5213I	intertidal	4	0.07	U	35.0	1.1	38.5	3.651	--
175	HCC-1B	3201		intertidal	4	0.07	UM(4)	32.5	1.1	35.8	3.577	--
176	HCC-1B	1214	1214I	intertidal	3	0.06	U	30.0	1.1	33.0	3.497	--
177	HCC-1B	3203	3203I	intertidal	2	0.06	U	30.0	1.1	33.0	3.497	--
178	HCC-1B	3207	3207I	intertidal	2	0.06	U	30.0	1.1	33.0	3.497	--
179	HCC-1B	3209	3209I	intertidal	3	0.06	U	30.0	1.1	33.0	3.497	--
180	HCC-1B	4201	4201I	intertidal	4	0.06	U	30.0	1.1	33.0	3.497	--
181	HCC-1B	2213	2213I	intertidal	4	0.05	U	25.0	1.1	27.5	3.314	--
182	HCC-1B	3220	3220I	intertidal	3	0.05	U	25.0	1.1	27.5	3.314	--
183	HCC-1B	3221	3221I	intertidal	3	0.05	U	25.0	1.1	27.5	3.314	--
184	HCC-1B	4207	4207I	intertidal	3	0.04	U	20.0	1.1	22.0	3.091	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-7. Sampling data used to map injury footprints for Nickel (Ni) in Hylebos Waterway. Injury threshold = 110 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
1	HCC-1B	3214	3214I	intertidal	2	190		190	1.1	209.0	5.342	20%
2	HCC-1B	5208	5208I	intertidal	2	172		172	1.1	189.2	5.243	20%
3	HCC-1B	5203	5203I	intertidal	2	170		170	1.1	187.0	5.231	20%
4	HCC-1B	4205	4205I	intertidal	3	92.6		92.6	1.1	101.9	4.624	--
5	HCC-1B	5210		intertidal	2	71.0		71.0	1.1	78.1	4.358	--
6	HCC-1B	5206	5206I	intertidal	2	69.2		69.2	1.1	76.1	4.332	--
7	HCC-1B	5209	5209I	intertidal	5	60.6		60.6	1.1	66.7	4.200	--
8	HCC-1B	5205	5205I	intertidal	2	55.4		55.4	1.1	60.9	4.110	--
9	HCC-1C	2114	2114 S	subtidal	1	52.9		52.9	1.1	58.2	4.064	--
10	HCC-1B	2211	2211I	intertidal	2	48.2		48.2	1.1	53.0	3.971	--
11	HCC-1A	2106	2106S	subtidal	1	42.6		42.6	1.1	46.9	3.847	--
12	HCC-1A	2104	2104S	subtidal	1	40.9		40.9	1.1	45.0	3.806	--
13	HCC-1A	2102	2102S	subtidal	1	40.6		40.6	1.1	44.7	3.799	--
14	HCC-1A	2107	2107S	subtidal	1	39.5		39.5	1.1	43.5	3.772	--
15	HCC-1C	2113	2113 S	subtidal	1	38.8		38.8	1.1	42.7	3.754	--
16	HCC-1B	5207	5207I	intertidal	2	38.8		38.8	1.1	42.7	3.754	--
17	HCC-1A	2105	2105S	subtidal	1	38.6		38.6	1.1	42.5	3.749	--
18	HCC-1B	2206	2206I	intertidal	6	36.6		36.6	1.1	40.3	3.695	--
19	HCC-1A	2103	2103S	subtidal	1	36.5		36.5	1.1	40.2	3.693	--
20	HCC-1A	1103	1103S	subtidal	1	36.3		36.3	1.1	39.9	3.687	--
21	Co-Trustee	HY-21	141	subtidal	1	39.5		39.5	1.0	39.5	3.676	--
22	HCC-1A	1107	1107S	subtidal	1	35.7		35.7	1.1	39.3	3.670	--
23	HCC-1A	2110	2110S	subtidal	1	35.5		35.5	1.1	39.1	3.665	--
24	HCC-1B	5213	5213I	intertidal	4	35.3		35.3	1.1	38.8	3.659	--
25	HCC-1A	1110	1110S	subtidal	1	34.9		34.9	1.1	38.4	3.648	--
26	Co-Trustee	HY-26	222	subtidal	1	38.2		38.2	1.0	38.2	3.643	--
27	HCC-1C	1124	1124 S	subtidal	1	34.5		34.5	1.1	38.0	3.636	--
28	HCC-1A	1111	1111S	subtidal	1	33.6		33.6	1.1	37.0	3.610	--
29	HCC-1A	5111	5111S	subtidal	1	33.4		33.4	1.1	36.7	3.604	--
30	HCC-1C	4120	4120 S	subtidal	1	33.1		33.1	1.1	36.4	3.595	--
31	HCC-1A	1106	1106S	subtidal	1	32.6		32.6	1.1	35.9	3.580	--
32	HCC-1B	2202	2202I	intertidal	2	32.5		32.5	1.1	35.8	3.577	--
33	HCC-1A	1113	1113S	subtidal	1	32.3		32.3	1.1	35.5	3.570	--
34	Co-Trustee	HY-20	130	subtidal	1	35.1		35.1	1.0	35.1	3.558	--
35	HCC-1A	5108	5108S	subtidal	1	31.9		31.9	1.1	35.1	3.558	--
36	HCC-1A	1105	1105S	subtidal	1	31.7		31.7	1.1	34.9	3.552	--
37	HCC-1A	1102	1102S	subtidal	1	31.5		31.5	1.1	34.7	3.545	--
38	HCC-1A	1101		subtidal	1	31.4	M(4)	31.4	1.1	34.6	3.543	--
39	HCC-1A	2108	2108S	subtidal	1	31.4		31.4	1.1	34.5	3.542	--
40	HCC-1B	1217	1217I	intertidal	5	30.9		30.9	1.1	34.0	3.526	--
41	HCC-1A	2111	2111S	subtidal	1	30.8		30.8	1.1	33.9	3.523	--
42	HCC-1C	5215	5215 I	intertidal	2	30.8		30.8	1.1	33.9	3.523	--
43	HCC-1A	2101	2101S	subtidal	1	30.7		30.7	1.1	33.8	3.520	--
44	HCC-1A	1108	1108S	subtidal	1	30.3		30.3	1.1	33.3	3.506	--
45	HCC-1C	1117	1117 S	subtidal	1	30.1		30.1	1.1	33.1	3.500	--
46	HCC-1B	4209	4209I	intertidal	2	30.1		30.1	1.1	33.1	3.500	--
47	HCC-1B	5201	5201I	intertidal	2	29.9		29.9	1.1	32.9	3.493	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-7. Sampling data used to map injury footprints for Nickel (Ni) in Hylebos Waterway. Injury threshold = 110 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
48	Co-Trustee	HY-28	270	subtidal	1	32.7		32.7	1.0	32.7	3.487	--
49	HCC-1B	1201		intertidal	2	29.7	UM(4)	29.7	1.1	32.7	3.486	--
50	HCC-1B	1216	1216I	intertidal	3	29.5		29.5	1.1	32.5	3.480	--
51	HCC-1A	2109	2109S	subtidal	1	29.0		29.0	1.1	31.9	3.463	--
52	Co-Trustee	HY-23	176	subtidal	1	31.4		31.4	1.0	31.4	3.447	--
53	HCC-1C	4117	4117 S	subtidal	1	28.3		28.3	1.1	31.1	3.438	--
54	HCC-1A	3106	3106S	subtidal	1	27.9		27.9	1.1	30.7	3.424	--
55	HCC-1A	3105	3105S	subtidal	1	27.8		27.8	1.1	30.6	3.420	--
56	HCC-1C	1126	1126 S	subtidal	1	27.6		27.6	1.1	30.4	3.413	--
57	HCC-1B	5212	5212I	intertidal	6	27.6		27.6	1.1	30.4	3.413	--
58	HCC-1A	1104	1104S	subtidal	1	27.3		27.3	1.1	30.0	3.402	--
59	HCC-1C	2115	2115 S	subtidal	1	27.3		27.3	1.1	30.0	3.402	--
60	HCC-1B	2212	2212I	intertidal	3	27.3		27.3	1.1	30.0	3.402	--
61	HCC-1B	2214	2214I	intertidal	2	27.2		27.2	1.1	29.9	3.399	--
62	HCC-1C	1121	1121 S	subtidal	1	26.9		26.9	1.1	29.6	3.387	--
63	HCC-1B	2210	2210I	intertidal	5	26.8		26.8	1.1	29.5	3.384	--
64	Co-Trustee	HY-19		subtidal	1	29.4	M(3)	29.4	1.0	29.4	3.381	--
65	HCC-1A	1112	1112S	subtidal	1	26.7		26.7	1.1	29.4	3.380	--
66	HCC-1B	3217	3217I	intertidal	2	26.3		26.3	1.1	28.9	3.365	--
67	HCC-1B	2204	2204I	intertidal	4	25.9		25.9	1.1	28.5	3.350	--
68	HCC-1A	1109	1109S	subtidal	1	25.8		25.8	1.1	28.4	3.346	--
69	HCC-1A	4107	4107S	subtidal	1	25.5		25.5	1.1	28.1	3.334	--
70	HCC-1A	4109		subtidal	1	24.9	M(4)	24.9	1.1	27.4	3.310	--
71	HCC-1B	4204	4204I	intertidal	4	24.9		24.9	1.1	27.4	3.310	--
72	HCC-1B	4210	4210I	intertidal	3	24.7		24.7	1.1	27.2	3.302	--
73	Co-Trustee	HY-22	159	subtidal	1	26.5		26.5	1.0	26.5	3.277	--
74	HCC-1C	2112	2112 S	subtidal	1	23.9		23.9	1.1	26.3	3.269	--
75	HCC-1A	5115	5115S	subtidal	1	23.9		23.9	1.1	26.3	3.269	--
76	HCC-1A	5116	5116S	subtidal	1	23.9		23.9	1.1	26.3	3.269	--
77	HCC-1C	1133	1133 S	subtidal	1	23.6		23.6	1.1	26.0	3.257	--
78	HCC-1B	1208	1208I	intertidal	2	23.5		23.5	1.1	25.9	3.252	--
79	HCC-1A	5110	5110S	subtidal	1	23.4		23.4	1.1	25.7	3.248	--
80	Co-Trustee	HY-10	338	subtidal	1	25.7		25.7	1.0	25.7	3.246	--
81	HCC-1B	1210	1210I	intertidal	2	23.3		23.3	1.1	25.6	3.244	--
82	HCC-1B	1211	1211I	intertidal	2	23.3		23.3	1.1	25.6	3.244	--
83	HCC-1A	3101	3101S	subtidal	1	23.3		23.3	1.1	25.6	3.244	--
84	HCC-1B	1212	1212I	intertidal	2	22.7		22.7	1.1	25.0	3.218	--
85	Co-Trustee	HY-18	77	subtidal	1	24.9		24.9	1.0	24.9	3.215	--
86	HCC-1A	5114	5114S	subtidal	1	22.4		22.4	1.1	24.6	3.204	--
87	Co-Trustee	HY-08	318	subtidal	1	24.6		24.6	1.0	24.6	3.203	--
88	HCC-1C	3110	3110 S	subtidal	1	22.3		22.3	1.1	24.5	3.200	--
89	HCC-1A	4111	4111S	subtidal	1	22.2		22.2	1.1	24.4	3.195	--
90	HCC-1A	4110	4110S	subtidal	1	22.0		22.0	1.1	24.2	3.186	--
91	HCC-1B	2205	2205I	intertidal	3	21.8		21.8	1.1	24.0	3.177	--
92	Co-Trustee	HY-06		subtidal	1	23.7	M(3)	23.7	1.0	23.7	3.167	--
93	Co-Trustee	HY-16	43	subtidal	1	23.7		23.7	1.0	23.7	3.165	--
94	HCC-1C	1122	1122 S	subtidal	1	21.5		21.5	1.1	23.7	3.163	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-7. Sampling data used to map injury footprints for Nickel (Ni) in Hylebos Waterway. Injury threshold = 110 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
95	HCC-1A	5109	5109S	subtidal	1	21.0		21.0	1.1	23.1	3.140	--
96	HCC-1A	5112	5112S	subtidal	1	21.0		21.0	1.1	23.1	3.140	--
97	HCC-1A	5113	5113S	subtidal	1	21.0		21.0	1.1	23.1	3.140	--
98	HCC-1A	4106	4106S	subtidal	1	20.8		20.8	1.1	22.9	3.130	--
99	HCC-1A	5101	5101S	subtidal	1	20.8		20.8	1.1	22.9	3.130	--
100	HCC-1B	4207	4207I	intertidal	3	20.5		20.5	1.1	22.6	3.116	--
101	Co-Trustee	HY-27	243	subtidal	1	22.5		22.5	1.0	22.5	3.114	--
102	Co-Trustee	HY-15	33	subtidal	1	22.2		22.2	1.0	22.2	3.100	--
103	HCC-1B	1213	1213I	intertidal	4	20.0		20.0	1.1	22.0	3.091	--
104	HCC-1B	5202	5202I	intertidal	6	19.8		19.8	1.1	21.8	3.081	--
105	HCC-1A	3104	3104S	subtidal	1	19.7		19.7	1.1	21.7	3.076	--
106	HCC-1B	1209	1209I	intertidal	3	19.6		19.6	1.1	21.6	3.071	--
107	Co-Trustee	HY-24	194	subtidal	1	21.2		21.2	1.0	21.2	3.054	--
108	HCC-1A	4115	4115S	subtidal	1	19.2		19.2	1.1	21.1	3.050	--
109	HCC-1A	5106	5106S	subtidal	1	19.2		19.2	1.1	21.1	3.050	--
110	HCC-1A	4104	4104S	subtidal	1	19.0		19.0	1.1	20.9	3.040	--
111	HCC-1C	1125	1125 S	subtidal	1	18.9		18.9	1.1	20.8	3.034	--
112	HCC-1B	1215	1215I	intertidal	4	18.9		18.9	1.1	20.8	3.034	--
113	HCC-1C	1120	1120 S	subtidal	1	18.6		18.6	1.1	20.5	3.018	--
114	HCC-1B	2215	2215I	intertidal	7	18.6		18.6	1.1	20.5	3.018	--
115	HCC-1B	4208	4208I	intertidal	3	18.5	M(4)	18.5	1.1	20.4	3.014	--
116	HCC-1B	1203	1203I	intertidal	7	18.5		18.5	1.1	20.4	3.013	--
117	HCC-1A	3102	3102S	subtidal	1	18.5		18.5	1.1	20.4	3.013	--
118	HCC-1B	3216	3216I	intertidal	3	18.5		18.5	1.1	20.4	3.013	--
119	HCC-1B	3221	3221I	intertidal	3	18.4		18.4	1.1	20.2	3.008	--
120	HCC-1B	1214	1214I	intertidal	3	18.1		18.1	1.1	19.9	2.991	--
121	HCC-1B	1204	1204I	intertidal	4	18.0		18.0	1.1	19.8	2.986	--
122	HCC-1C	1119	1119 S	subtidal	1	17.9		17.9	1.1	19.7	2.980	--
123	Co-Trustee	HY-07	351	subtidal	1	19.6		19.6	1.0	19.6	2.976	--
124	HCC-1B	1202	1202I	intertidal	4	17.8		17.8	1.1	19.6	2.975	--
125	HCC-1C	3107	3107 S	subtidal	1	17.8		17.8	1.1	19.6	2.975	--
126	HCC-1A	5107		subtidal	1	17.8	M(4)	17.8	1.1	19.5	2.972	--
127	HCC-1B	2213	2213I	intertidal	4	17.7		17.7	1.1	19.5	2.969	--
128	HCC-1C	3112	3112 S	subtidal	1	17.7		17.7	1.1	19.5	2.969	--
129	HCC-1A	5104	5104S	subtidal	1	17.5		17.5	1.1	19.3	2.958	--
130	HCC-1B	3204	3204I	intertidal	3	17.4		17.4	1.1	19.1	2.952	--
131	HCC-1B	3210	3210I	intertidal	2	17.4		17.4	1.1	19.1	2.952	--
132	HCC-1C	4119	4119 S	subtidal	1	17.4		17.4	1.1	19.1	2.952	--
133	Co-Trustee	HY-11	297	subtidal	1	19.1		19.1	1.0	19.1	2.950	--
134	HCC-1A	5103	5103S	subtidal	1	17.3		17.3	1.1	19.0	2.946	--
135	HCC-1C	1118	1118 S	subtidal	1	17.1		17.1	1.1	18.8	2.934	--
136	Co-Trustee	HY-13	10	subtidal	1	18.8		18.8	1.0	18.8	2.934	--
137	HCC-1A	4103	4103S	subtidal	1	17.0		17.0	1.1	18.7	2.929	--
138	HCC-1B	3203	3203I	intertidal	2	16.9		16.9	1.1	18.6	2.923	--
139	Co-Trustee	HY-03	428	subtidal	1	18.5	M	18.5	1.0	18.5	2.918	--
140	Co-Trustee	HY-04	418	subtidal	1	18.5		18.5	1.0	18.5	2.918	--
141	HCC-1B	3213	3213I	intertidal	2	16.7		16.7	1.1	18.4	2.911	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-7. Sampling data used to map injury footprints for Nickel (Ni) in Hylebos Waterway. Injury threshold = 110 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
142	HCC-1A	5105	5105S	subtidal	1	16.6		16.6	1.1	18.3	2.905	--
143	HCC-1B	3212	3212I	intertidal	2	16.5		16.5	1.1	18.2	2.899	--
144	Co-Trustee	HY-12	279	subtidal	1	18.1		18.1	1.0	18.1	2.896	--
145	Co-Trustee	HY-02	442	subtidal	1	18.0		18.0	1.0	18.0	2.890	--
146	Co-Trustee	HY-25	207	subtidal	1	18.0		18.0	1.0	18.0	2.890	--
147	HCC-1B	1207	1207I	intertidal	2	16.3		16.3	1.1	17.9	2.886	--
148	Co-Trustee	HY-09	350	subtidal	1	17.9		17.9	1.0	17.9	2.885	--
149	HCC-1B	5211	5211I	intertidal	2	16.2		16.2	1.1	17.8	2.880	--
150	HCC-1B	1206	1206I	intertidal	4	16.1		16.1	1.1	17.7	2.874	--
151	HCC-1B	3207	3207I	intertidal	2	15.2		15.2	1.1	16.7	2.817	--
152	Co-Trustee	HY-05	383	subtidal	1	16.7		16.7	1.0	16.7	2.815	--
153	HCC-1C	4118	4118 S	subtidal	1	15.0		15.0	1.1	16.5	2.803	--
154	Co-Trustee	HY-14		subtidal	1	16.5	M	16.5	1.0	16.5	2.803	--
155	HCC-1A	4101	4101S	subtidal	1	14.9		14.9	1.1	16.4	2.797	--
156	HCC-1C	5121	5121 S	subtidal	1	14.9		14.9	1.1	16.4	2.797	--
157	HCC-1B	3211	3211I	intertidal	4	14.8		14.8	1.1	16.3	2.790	--
158	HCC-1B	3215	3215I	intertidal	2	14.8		14.8	1.1	16.3	2.790	--
159	HCC-1A	4105	4105S	subtidal	1	14.8		14.8	1.1	16.3	2.790	--
160	HCC-1B	3209	3209I	intertidal	3	14.7		14.7	1.1	16.2	2.783	--
161	HCC-1C	5120	5120 S	subtidal	1	14.4		14.4	1.1	15.8	2.763	--
162	Co-Trustee	HY-17	61	subtidal	1	15.6		15.6	1.0	15.6	2.748	--
163	HCC-1A	3103	3103S	subtidal	1	14.0		14.0	1.1	15.4	2.734	--
164	HCC-1B	3220	3220I	intertidal	3	13.7		13.7	1.1	15.1	2.713	--
165	HCC-1C	3108		subtidal	1	13.6	M	13.6	1.1	15.0	2.707	--
166	HCC-1B	2209	2209I	intertidal	2	13.5		13.5	1.1	14.9	2.698	--
167	HCC-1B	4206	4206I	intertidal	3	13.5		13.5	1.1	14.9	2.698	--
168	HCC-1B	4202	4202I	intertidal	3	13.3		13.3	1.1	14.6	2.683	--
169	HCC-1A	5102	5102S	subtidal	1	13.3		13.3	1.1	14.6	2.683	--
170	Co-Trustee	HY-01	455	subtidal	1	14.6		14.6	1.0	14.6	2.681	--
171	HCC-1A	4102	4102S	subtidal	1	13.2		13.2	1.1	14.5	2.676	--
172	HCC-1B	2208	2208I	intertidal	2	13.0		13.0	1.1	14.3	2.660	--
173	HCC-1B	3206	3206I	intertidal	3	12.2		12.2	1.1	13.4	2.597	--
174	HCC-1A	4108	4108S	subtidal	1	12.1		12.1	1.1	13.3	2.589	--
175	HCC-1B	3219	3219I	intertidal	3	11.7		11.7	1.1	12.9	2.555	--
176	HCC-1C	3109	3109 S	subtidal	1	11.4		11.4	1.1	12.5	2.529	--
177	HCC-1C	1123	1123 S	subtidal	1	10.8		10.8	1.1	11.9	2.475	--
178	HCC-1B	3205	3205I	intertidal	2	10.5		10.5	1.1	11.6	2.447	--
179	HCC-1B	5214	5214I	intertidal	6	10.2		10.2	1.1	11.2	2.418	--
180	HCC-1B	4201	4201I	intertidal	4	10.1		10.1	1.1	11.1	2.408	--
181	HCC-1B	3201		intertidal	4	19.7	UM(4)	9.9	1.1	10.8	2.383	--
182	HCC-1B	2207	2207I	intertidal	2	9.6		9.6	1.1	10.6	2.357	--
183	HCC-1C	4116	4116 S	subtidal	1	9.5		9.5	1.1	10.5	2.347	--
184	HCC-1B	4203	4203I	intertidal	2	9.2		9.2	1.1	10.1	2.315	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-8. Sampling data used to map injury footprints for Lead (Pb) in Hylebos Waterway. Injury threshold = 360 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
1	HCC-1B	5213	5213I	intertidal	4	38500		38500	1.1	42,350.0	10.654	20%
2	HCC-1B	5208	5208I	intertidal	2	34700		34700	1.1	38,170.0	10.550	20%
3	HCC-1B	5210		intertidal	2	27600		27600	1.1	30,360.0	10.321	20%
4	HCC-1B	5209	5209I	intertidal	5	9360		9360	1.1	10,296.0	9.240	20%
5	HCC-1B	2202	2202I	intertidal	2	1570		1570	1.1	1,727.0	7.454	20%
6	HCC-1B	3214	3214I	intertidal	2	1210		1210	1.1	1,331.0	7.194	20%
7	HCC-1B	5207	5207I	intertidal	2	1150		1150	1.1	1,265.0	7.143	20%
8	HCC-1B	4205	4205I	intertidal	3	742	J	742	1.1	816.2	6.705	15%
9	HCC-1B	5203	5203I	intertidal	2	618		618	1.1	679.8	6.522	15%
10	HCC-1B	1217	1217I	intertidal	5	568		568	1.1	624.8	6.437	15%
11	HCC-1B	4207	4207I	intertidal	3	453		453	1.1	498.3	6.211	10%
12	HCC-1B	5206	5206I	intertidal	2	449		449	1.1	493.9	6.202	10%
13	HCC-1B	2211	2211I	intertidal	2	324		324	1.1	356.4	5.876	--
14	HCC-1B	3221	3221I	intertidal	3	324		324	1.1	356.4	5.876	--
15	HCC-1B	1216	1216I	intertidal	3	283		283	1.1	311.3	5.741	--
16	HCC-1B	5205	5205I	intertidal	2	283		283	1.1	311.3	5.741	--
17	HCC-1C	2112	2112 S	subtidal	1	268		268	1.1	294.8	5.686	--
18	HCC-1C	4118	4118 S	subtidal	1	256		256	1.1	281.6	5.640	--
19	HCC-1C	4120	4120 S	subtidal	1	255		255	1.1	280.5	5.637	--
20	HCC-1B	5201	5201I	intertidal	2	244		244	1.1	268.4	5.592	--
21	HCC-1B	5202	5202I	intertidal	6	202		202	1.1	222.2	5.404	--
22	HCC-1B	3210	3210I	intertidal	2	200	J	200	1.1	220.0	5.394	--
23	HCC-1B	2212	2212I	intertidal	3	191		191	1.1	210.1	5.348	--
24	HCC-1C	5215	5215 I	intertidal	2	184		184	1.1	202.4	5.310	--
25	HCC-1A	5111	5111S	subtidal	1	174		174	1.1	191.4	5.254	--
26	Co-Trustee	HY-10	338	subtidal	1	176		176	1.0	176.0	5.170	--
27	HCC-1B	5211	5211I	intertidal	2	141		141	1.1	155.1	5.044	--
28	HCC-1C	2114	2114 S	subtidal	1	140		140	1.1	154.0	5.037	--
29	HCC-1C	1117	1117 S	subtidal	1	138		138	1.1	151.8	5.023	--
30	HCC-1B	4204	4204I	intertidal	4	137		137	1.1	150.7	5.015	--
31	HCC-1A	5108	5108S	subtidal	1	133		133	1.1	146.3	4.986	--
32	HCC-1A	2102	2102S	subtidal	1	112		112	1.1	123.2	4.814	--
33	HCC-1B	4209	4209I	intertidal	2	112		112	1.1	123.2	4.814	--
34	HCC-1B	1213	1213I	intertidal	4	109		109	1.1	119.9	4.787	--
35	HCC-1C	2115	2115 S	subtidal	1	107		107	1.1	117.7	4.768	--
36	HCC-1A	5109	5109S	subtidal	1	106		106	1.1	116.6	4.759	--
37	HCC-1A	2110	2110S	subtidal	1	104		104	1.1	114.4	4.740	--
38	HCC-1A	1105	1105S	subtidal	1	102		102	1.1	112.2	4.720	--
39	HCC-1A	2104	2104S	subtidal	1	102		102	1.1	112.2	4.720	--
40	HCC-1A	2106	2106S	subtidal	1	102	J	102	1.1	112.2	4.720	--
41	HCC-1A	4107	4107S	subtidal	1	99.4		99.4	1.1	109.3	4.694	--
42	HCC-1A	2105	2105S	subtidal	1	99	J	99.1	1.1	109.0	4.691	--
43	HCC-1A	5116	5116S	subtidal	1	97.7		97.7	1.1	107.5	4.677	--
44	HCC-1B	3201		intertidal	4	96	JM(4)	96.0	1.1	105.6	4.659	--
45	HCC-1A	1102	1102S	subtidal	1	94	J	93.9	1.1	103.3	4.638	--
46	HCC-1A	2111	2111S	subtidal	1	93		93	1.1	102.6	4.631	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-8. Sampling data used to map injury footprints for Lead (Pb) in Hylebos Waterway. Injury threshold = 360 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
47	HCC-1A	1103	1103S	subtidal	1	92		92.3	1.1	101.5	4.620	--
48	HCC-1B	2209	2209I	intertidal	2	92.1		92.1	1.1	101.3	4.618	--
49	HCC-1B	2206	2206I	intertidal	6	91.8		91.8	1.1	101.0	4.615	--
50	HCC-1A	2103	2103S	subtidal	1	92	J	91.5	1.1	100.7	4.612	--
51	HCC-1A	5113	5113S	subtidal	1	90.2		90.2	1.1	99.2	4.597	--
52	HCC-1B	1208	1208I	intertidal	2	90		89.7	1.1	98.7	4.592	--
53	HCC-1A	2107	2107S	subtidal	1	86	J	85.7	1.1	94.3	4.546	--
54	HCC-1A	1107	1107S	subtidal	1	86	J	85.5	1.1	94.1	4.544	--
55	HCC-1C	4117	4117 S	subtidal	1	84		84.4	1.1	92.8	4.531	--
56	HCC-1A	5115	5115S	subtidal	1	83.5		83.5	1.1	91.9	4.520	--
57	HCC-1A	3105	3105S	subtidal	1	83		83.0	1.1	91.3	4.514	--
58	Co-Trustee	HY-26	222	subtidal	1	91		91.0	1.0	91.0	4.511	--
59	Co-Trustee	HY-20	130	subtidal	1	91		90.8	1.0	90.8	4.509	--
60	HCC-1C	3109	3109 S	subtidal	1	83		82.5	1.1	90.8	4.508	--
61	HCC-1A	2101	2101S	subtidal	1	82		82.4	1.1	90.6	4.507	--
62	HCC-1A	4109		subtidal	1	82	JM(4)	82	1.1	90.3	4.503	--
63	HCC-1A	4110	4110S	subtidal	1	81.9		81.9	1.1	90.1	4.501	--
64	HCC-1A	1111	1111S	subtidal	1	82		81.7	1.1	89.9	4.498	--
65	HCC-1B	2210	2210I	intertidal	5	81.4		81.4	1.1	89.5	4.495	--
66	HCC-1A	1101		subtidal	1	81	JM(4)	81.1	1.1	89.2	4.491	--
67	Co-Trustee	HY-21	141	subtidal	1	89		89.1	1.0	89.1	4.490	--
68	HCC-1A	5112	5112S	subtidal	1	79.9		79.9	1.1	87.9	4.476	--
69	HCC-1C	1124	1124 S	subtidal	1	79		79.1	1.1	87.0	4.466	--
70	HCC-1A	3106	3106S	subtidal	1	79.1		79.1	1.1	87.0	4.466	--
71	HCC-1A	5101	5101S	subtidal	1	78.4		78.4	1.1	86.2	4.457	--
72	HCC-1A	5110	5110S	subtidal	1	77.4		77.4	1.1	85.1	4.444	--
73	Co-Trustee	HY-19		subtidal	1	85	M(3)	84.9	1.0	84.9	4.441	--
74	Co-Trustee	HY-23	176	subtidal	1	84		84.2	1.0	84.2	4.433	--
75	HCC-1A	1110	1110S	subtidal	1	77		76.5	1.1	84.2	4.433	--
76	HCC-1A	2108	2108S	subtidal	1	77	J	76.5	1.1	84.2	4.433	--
77	HCC-1C	1121	1121 S	subtidal	1	76		76.1	1.1	83.7	4.427	--
78	Co-Trustee	HY-25	207	subtidal	1	83		83.2	1.0	83.2	4.421	--
79	HCC-1A	4111	4111S	subtidal	1	75.5		75.5	1.1	83.1	4.419	--
80	Co-Trustee	HY-08	318	subtidal	1	83		82.5	1.0	82.5	4.413	--
81	HCC-1A	4106	4106S	subtidal	1	72.6		72.6	1.1	79.9	4.380	--
82	Co-Trustee	HY-06		subtidal	1	79	M(3)	79.1	1.0	79.1	4.371	--
83	HCC-1A	3101	3101S	subtidal	1	71.4		71.4	1.1	78.5	4.364	--
84	Co-Trustee	HY-24	194	subtidal	1	78		77.9	1.0	77.9	4.355	--
85	HCC-1A	1106	1106S	subtidal	1	70		70.1	1.1	77.1	4.345	--
86	HCC-1A	4104	4104S	subtidal	1	70.0		70.0	1.1	77.0	4.344	--
87	HCC-1A	5114	5114S	subtidal	1	69.7		69.7	1.1	76.7	4.340	--
88	HCC-1C	1122	1122 S	subtidal	1	69		69	1.1	76.3	4.335	--
89	HCC-1C	3107	3107 S	subtidal	1	69		69.4	1.1	76.3	4.335	--
90	Co-Trustee	HY-15	33	subtidal	1	75		75.4	1.0	75.4	4.323	--
91	HCC-1A	5106	5106S	subtidal	1	67.9		67.9	1.1	74.7	4.313	--
92	HCC-1C	3110	3110 S	subtidal	1	68		68	1.1	74.3	4.307	--
93	HCC-1C	2113	2113 S	subtidal	1	67		66.9	1.1	73.6	4.299	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-8. Sampling data used to map injury footprints for Lead (Pb) in Hylebos Waterway. Injury threshold = 360 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
94	HCC-1A	2109	2109S	subtidal	1	67	J	67	1.1	73.3	4.294	--
95	Co-Trustee	HY-18	77	subtidal	1	72		72.3	1.0	72.3	4.281	--
96	HCC-1B	3206	3206I	intertidal	3	64.8		64.8	1.1	71.3	4.267	--
97	HCC-1B	4208	4208I	intertidal	3	64	M	63.8	1.1	70.2	4.251	--
98	HCC-1A	4101	4101S	subtidal	1	63.5		63.5	1.1	69.9	4.246	--
99	HCC-1B	2214	2214I	intertidal	2	62.9		62.9	1.1	69.2	4.237	--
100	HCC-1A	1113	1113S	subtidal	1	63		62.7	1.1	69.0	4.234	--
101	Co-Trustee	HY-22	159	subtidal	1	69		68.9	1.0	68.9	4.233	--
102	Co-Trustee	HY-12	279	subtidal	1	69		68.5	1.0	68.5	4.227	--
103	HCC-1A	4115	4115S	subtidal	1	61.9		61.9	1.1	68.1	4.221	--
104	HCC-1A	3104	3104S	subtidal	1	61.5		61.5	1.1	67.7	4.214	--
105	HCC-1B	5212	5212I	intertidal	6	61.2		61.2	1.1	67.3	4.209	--
106	HCC-1A	1104	1104S	subtidal	1	60		60.3	1.1	66.3	4.195	--
107	Co-Trustee	HY-09	350	subtidal	1	66		66.3	1.0	66.3	4.194	--
108	HCC-1A	3102	3102S	subtidal	1	60.1		60.1	1.1	66.1	4.191	--
109	HCC-1A	1108	1108S	subtidal	1	59		59.3	1.1	65.2	4.178	--
110	HCC-1B	3211	3211I	intertidal	4	59.1	J	59.1	1.1	65.0	4.175	--
111	Co-Trustee	HY-28	270	subtidal	1	65		65.0	1.0	65.0	4.174	--
112	Co-Trustee	HY-16	43	subtidal	1	64		64.4	1.0	64.4	4.165	--
113	HCC-1B	4206	4206I	intertidal	3	57.7		57.7	1.1	63.5	4.151	--
114	HCC-1B	2204	2204I	intertidal	4	57.4		57.4	1.1	63.1	4.145	--
115	HCC-1B	3216	3216I	intertidal	3	56.9		56.9	1.1	62.6	4.137	--
116	HCC-1C	1133	1133 S	subtidal	1	56		56.0	1.1	61.6	4.121	--
117	Co-Trustee	HY-03	428	subtidal	1	61	M	61.5	1.0	61.5	4.118	--
118	HCC-1B	2205	2205I	intertidal	3	54.4		54.4	1.1	59.8	4.092	--
119	HCC-1B	1201		intertidal	2	54	M(4)	54.2	1.1	59.6	4.088	--
120	HCC-1B	2215	2215I	intertidal	7	54.1		54.1	1.1	59.5	4.086	--
121	Co-Trustee	HY-02	442	subtidal	1	59		58.9	1.0	58.9	4.076	--
122	Co-Trustee	HY-07	351	subtidal	1	59		58.5	1.0	58.5	4.069	--
123	HCC-1C	4119	4119 S	subtidal	1	53		52.9	1.1	58.2	4.064	--
124	Co-Trustee	HY-11	297	subtidal	1	58		57.9	1.0	57.9	4.059	--
125	HCC-1A	5103	5103S	subtidal	1	51.3		51.3	1.1	56.4	4.033	--
126	HCC-1A	5107		subtidal	1	51	M(4)	51.1	1.1	56.2	4.029	--
127	HCC-1A	4103	4103S	subtidal	1	50.9		50.9	1.1	56.0	4.025	--
128	HCC-1A	1112	1112S	subtidal	1	50		49.6	1.1	54.6	3.999	--
129	Co-Trustee	HY-05	383	subtidal	1	54		54.0	1.0	54.0	3.989	--
130	HCC-1B	1207	1207I	intertidal	2	48		48	1.1	52.9	3.969	--
131	HCC-1B	3204	3204I	intertidal	3	48.0		48.0	1.1	52.8	3.967	--
132	HCC-1B	3212	3212I	intertidal	2	48.0		48.0	1.1	52.8	3.967	--
133	HCC-1A	1109	1109S	subtidal	1	48		47.9	1.1	52.7	3.964	--
134	HCC-1B	3215	3215I	intertidal	2	47.7		47.7	1.1	52.5	3.960	--
135	Co-Trustee	HY-27	243	subtidal	1	52		52.1	1.0	52.1	3.953	--
136	HCC-1B	3219	3219I	intertidal	3	46.8		46.8	1.1	51.5	3.941	--
137	HCC-1C	3112	3112 S	subtidal	1	46		46.3	1.1	50.9	3.930	--
138	HCC-1B	2208	2208I	intertidal	2	45.9		45.9	1.1	50.5	3.922	--
139	HCC-1C	1126	1126 S	subtidal	1	45		45.3	1.1	49.8	3.909	--
140	HCC-1A	5104	5104S	subtidal	1	44.6		44.6	1.1	49.1	3.893	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-8. Sampling data used to map injury footprints for Lead (Pb) in Hylebos Waterway. Injury threshold = 360 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
141	HCC-1B	1212	1212I	intertidal	2	44		43.6	1.1	48.0	3.870	--
142	Co-Trustee	HY-04	418	subtidal	1	47		47.4	1.0	47.4	3.859	--
143	HCC-1B	4202	4202I	intertidal	3	41.5		41.5	1.1	45.7	3.821	--
144	HCC-1B	2213	2213I	intertidal	4	40.8		40.8	1.1	44.9	3.804	--
145	HCC-1B	4210	4210I	intertidal	3	39.5		39.5	1.1	43.5	3.772	--
146	Co-Trustee	HY-14		subtidal	1	42	M	41.9	1.0	41.9	3.735	--
147	HCC-1C	1125	1125 S	subtidal	1	38		37.9	1.1	41.7	3.730	--
148	HCC-1A	4108	4108S	subtidal	1	37.7	J	37.7	1.1	41.5	3.725	--
149	HCC-1A	5102	5102S	subtidal	1	37.4		37.4	1.1	41.1	3.717	--
150	HCC-1A	4105	4105S	subtidal	1	36.2	J	36.2	1.1	39.8	3.684	--
151	HCC-1A	5105	5105S	subtidal	1	35.9		35.9	1.1	39.5	3.676	--
152	HCC-1B	3217	3217I	intertidal	2	33.1		33.1	1.1	36.4	3.595	--
153	HCC-1C	1120	1120 S	subtidal	1	33		32.6	1.1	35.9	3.580	--
154	Co-Trustee	HY-17	61	subtidal	1	35		35.2	1.0	35.2	3.561	--
155	HCC-1C	5120	5120 S	subtidal	1	32		31.5	1.1	34.7	3.545	--
156	HCC-1B	1215	1215I	intertidal	4	31		30.5	1.1	33.6	3.513	--
157	HCC-1B	3203	3203I	intertidal	2	30.5		30.5	1.1	33.6	3.513	--
158	HCC-1A	3103	3103S	subtidal	1	30.3		30.3	1.1	33.3	3.506	--
159	Co-Trustee	HY-13	10	subtidal	1	33		33.0	1.0	33.0	3.497	--
160	HCC-1B	3207	3207I	intertidal	2	29.3		29.3	1.1	32.2	3.473	--
161	HCC-1B	3205	3205I	intertidal	2	29.0		29.0	1.1	31.9	3.463	--
162	HCC-1B	4201	4201I	intertidal	4	28.2		28.2	1.1	31.0	3.435	--
163	HCC-1C	4116	4116 S	subtidal	1	28		28.1	1.1	30.9	3.431	--
164	HCC-1C	5121	5121 S	subtidal	1	28		28.1	1.1	30.9	3.431	--
165	HCC-1A	4102	4102S	subtidal	1	27.7		27.7	1.1	30.5	3.417	--
166	HCC-1B	3209	3209I	intertidal	3	27.3	J	27.3	1.1	30.0	3.402	--
167	HCC-1C	1118	1118 S	subtidal	1	22		22.2	1.1	24.4	3.195	--
168	HCC-1B	1206	1206I	intertidal	4	22		22	1.1	23.8	3.168	--
169	HCC-1B	5214	5214I	intertidal	6	20.1		20.1	1.1	22.1	3.096	--
170	Co-Trustee	HY-01	455	subtidal	1	22		21.5	1.0	21.5	3.068	--
171	HCC-1B	1211	1211I	intertidal	2	18		18.4	1.1	20.2	3.008	--
172	HCC-1B	1202	1202I	intertidal	4	17		17.3	1.1	19.0	2.946	--
173	HCC-1B	3213	3213I	intertidal	2	16.0		16.0	1.1	17.6	2.868	--
174	HCC-1B	1203	1203I	intertidal	7	16		15.6	1.1	17.2	2.843	--
175	HCC-1B	4203	4203I	intertidal	2	15.5		15.5	1.1	17.1	2.836	--
176	HCC-1B	1214	1214I	intertidal	3	15		15.4	1.1	16.9	2.830	--
177	HCC-1B	1209	1209I	intertidal	3	14		13.8	1.1	15.2	2.720	--
178	HCC-1C	1123	1123 S	subtidal	1	14		13.6	1.1	15.0	2.705	--
179	HCC-1B	1204	1204I	intertidal	4	13		13.1	1.1	14.4	2.668	--
180	HCC-1B	1210	1210I	intertidal	2	13		13	1.1	13.8	2.621	--
181	HCC-1B	3220	3220I	intertidal	3	11		10.7	1.1	11.8	2.466	--
182	HCC-1C	1119	1119 S	subtidal	1	10		10.4	1.1	11.4	2.437	--
183	HCC-1B	2207	2207I	intertidal	2	10		9.7	1.1	10.7	2.367	--
184	HCC-1C	3108		subtidal	1	8	UM	3.9	1.1	4.3	1.456	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-9. Sampling data used to map injury footprints for Antimony (Sb) in Hylebos Waterway. Injury threshold = 5.9 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
1	HCC-1B	2202	2202I	intertidal	2	717	J	717	1.1	788.7	6.670	20%
2	HCC-1B	4205	4205I	intertidal	3	351	J	351	1.1	386.1	5.956	20%
3	HCC-1B	1217	1217I	intertidal	5	296	J	296	1.1	325.6	5.786	20%
4	HCC-1B	4207	4207I	intertidal	3	174	J	174	1.1	191.4	5.254	15%
5	HCC-1B	1216	1216I	intertidal	3	137	J	137	1.1	150.7	5.015	15%
6	HCC-1B	3221	3221I	intertidal	3	119	J	119	1.1	130.9	4.874	10%
7	HCC-1C	2112	2112 S	subtidal	1	118.0	J	118.0	1.1	129.8	4.866	10%
8	HCC-1B	5203	5203I	intertidal	2	89.1	J	89.1	1.1	98.0	4.585	10%
9	HCC-1B	3210	3210I	intertidal	2	59.4	J	59.4	1.1	65.3	4.180	10%
10	HCC-1C	4118	4118 S	subtidal	1	59.3	J	59.3	1.1	65.2	4.178	10%
11	HCC-1B	4204	4204I	intertidal	4	55	J	55	1.1	60.5	4.103	10%
12	HCC-1C	4120	4120 S	subtidal	1	54.6	J	54.6	1.1	60.1	4.095	10%
13	HCC-1B	5213	5213I	intertidal	4	45.9	J	45.9	1.1	50.5	3.922	10%
14	HCC-1B	2209	2209I	intertidal	2	45.6	J	45.6	1.1	50.2	3.915	10%
15	HCC-1B	5210		intertidal	2	38.8	J	38.8	1.1	42.7	3.754	10%
16	HCC-1C	2114	2114 S	subtidal	1	38.3	J	38.3	1.1	42.1	3.741	10%
17	HCC-1C	1117	1117 S	subtidal	1	36.0	J	36	1.1	39.6	3.679	10%
18	HCC-1B	5201	5201I	intertidal	2	35.3	J	35.3	1.1	38.8	3.659	10%
19	HCC-1B	1213	1213I	intertidal	4	26	J	26	1.1	28.6	3.353	10%
20	HCC-1C	5215	5215 I	intertidal	2	24.0	J	24.0	1.1	26.4	3.273	10%
21	HCC-1B	4206	4206I	intertidal	3	23.6	J	23.6	1.1	26.0	3.257	10%
22	HCC-1B	1208	1208I	intertidal	2	22.8	J	22.8	1.1	25.1	3.222	10%
23	HCC-1B	2206	2206I	intertidal	6	21.7	J	21.7	1.1	23.9	3.173	10%
24	HCC-1B	2212	2212I	intertidal	3	20.2	J	20.2	1.1	22.2	3.101	10%
25	HCC-1B	5206	5206I	intertidal	2	19.7	J	19.7	1.1	21.7	3.076	10%
26	HCC-1B	2208	2208I	intertidal	2	19.6	J	19.6	1.1	21.6	3.071	10%
27	HCC-1B	3211	3211I	intertidal	4	19.6	J	19.6	1.1	21.6	3.071	10%
28	HCC-1C	3109	3109 S	subtidal	1	19.0	J	19.0	1.1	20.9	3.040	5%
29	HCC-1C	1122	1122 S	subtidal	1	18.8	J	19	1.1	20.7	3.029	5%
30	HCC-1A	1105	1105S	subtidal	1	18.7	J	18.7	1.1	20.6	3.024	5%
31	HCC-1B	2210	2210I	intertidal	5	17.8	J	17.8	1.1	19.6	2.975	5%
32	HCC-1B	5208	5208I	intertidal	2	16.4	J	16.4	1.1	18.0	2.893	5%
33	HCC-1B	1207	1207I	intertidal	2	15	J	15	1.1	16.5	2.803	5%
34	HCC-1B	3214	3214I	intertidal	2	14.6	J	14.6	1.1	16.1	2.776	5%
35	HCC-1B	2211	2211I	intertidal	2	13.6	J	13.6	1.1	15.0	2.705	5%
36	HCC-1B	1212	1212I	intertidal	2	12.8	J	12.8	1.1	14.1	2.645	5%
37	HCC-1B	5202	5202I	intertidal	6	12.5	J	12.5	1.1	13.8	2.621	5%
38	HCC-1B	5209	5209I	intertidal	5	12.5	J	12.5	1.1	13.8	2.621	5%
39	HCC-1B	1201		intertidal	2	11.7	JM(4)	12	1.1	12.8	2.551	5%
40	HCC-1B	2213	2213I	intertidal	4	11.5	J	11.5	1.1	12.7	2.538	5%
41	HCC-1C	3107	3107 S	subtidal	1	11.5	J	11.5	1.1	12.7	2.538	5%
42	HCC-1B	5207	5207I	intertidal	2	11.3	J	11.3	1.1	12.4	2.520	5%
43	HCC-1B	2204	2204I	intertidal	4	9.8	J	9.8	1.1	10.8	2.378	5%
44	HCC-1A	1102	1102S	subtidal	1	9.7	J	9.7	1.1	10.7	2.367	5%
45	HCC-1B	2205	2205I	intertidal	3	9.7	J	9.7	1.1	10.7	2.367	5%
46	HCC-1B	5205	5205I	intertidal	2	9.3	J	9.3	1.1	10.2	2.325	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-9. Sampling data used to map injury footprints for Antimony (Sb) in Hylebos Waterway. Injury threshold = 5.9 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
47	HCC-1A	2109	2109S	subtidal	1	9.1	J	9.1	1.1	10.0	2.304	5%
48	HCC-1B	3206	3206I	intertidal	3	8.5	J	8.5	1.1	9.4	2.235	5%
49	HCC-1A	1101		subtidal	1	8.5	JM(4)	8	1.1	9.3	2.229	5%
50	HCC-1B	1215	1215I	intertidal	4	8.4	J	8.4	1.1	9.2	2.224	5%
51	HCC-1A	1107	1107S	subtidal	1	8.2	J	8.2	1.1	9.0	2.199	5%
52	HCC-1A	2107	2107S	subtidal	1	8.2	J	8.2	1.1	9.0	2.199	5%
53	HCC-1C	4117	4117 S	subtidal	1	15.6	U	7.8	1.1	8.6	2.149	5%
54	HCC-1C	1126	1126 S	subtidal	1	7.7	J	8	1.1	8.5	2.137	5%
55	HCC-1A	1108	1108S	subtidal	1	7.5	J	7.5	1.1	8.3	2.110	5%
56	HCC-1A	4102	4102S	subtidal	1	7.4	J	7.4	1.1	8.1	2.097	5%
57	HCC-1B	5211	5211I	intertidal	2	7.4	J	7.4	1.1	8.1	2.097	5%
58	HCC-1B	3212	3212I	intertidal	2	7.2	J	7.2	1.1	7.9	2.069	5%
59	HCC-1A	4106	4106S	subtidal	1	7.2	J	7.2	1.1	7.9	2.069	5%
60	HCC-1A	2108	2108S	subtidal	1	7.1	J	7.1	1.1	7.8	2.055	5%
61	HCC-1A	2111	2111S	subtidal	1	7.1	J	7.1	1.1	7.8	2.055	5%
62	HCC-1C	1121	1121 S	subtidal	1	13.4	U	7	1.1	7.4	1.997	5%
63	HCC-1A	4115	4115S	subtidal	1	6.7	J	6.7	1.1	7.4	1.997	5%
64	HCC-1C	1124	1124 S	subtidal	1	13.2	U	7	1.1	7.3	1.982	5%
65	HCC-1A	2105	2105S	subtidal	1	6.5	J	6.5	1.1	7.2	1.967	5%
66	HCC-1A	2103	2103S	subtidal	1	6.3	J	6.3	1.1	6.9	1.936	5%
67	HCC-1B	4208	4208I	intertidal	3	6.3	JM(3)	6.3	1.1	6.9	1.936	5%
68	HCC-1A	2106	2106S	subtidal	1	6.1	J	6.1	1.1	6.7	1.904	5%
69	HCC-1B	3209	3209I	intertidal	3	6.1	J	6.1	1.1	6.7	1.904	5%
70	HCC-1A	4108	4108S	subtidal	1	6.1	J	6.1	1.1	6.7	1.904	5%
71	HCC-1A	4109		subtidal	1	6.0	JM(4)	6.0	1.1	6.6	1.887	5%
72	HCC-1A	4107	4107S	subtidal	1	5.9	J	5.9	1.1	6.5	1.870	5%
73	HCC-1B	4209	4209I	intertidal	2	5.9	J	5.9	1.1	6.5	1.870	5%
74	HCC-1B	2214	2214I	intertidal	2	5.8	J	5.8	1.1	6.4	1.853	5%
75	HCC-1B	2215	2215I	intertidal	7	5.8	J	5.8	1.1	6.4	1.853	5%
76	HCC-1B	3215	3215I	intertidal	2	5.8	J	5.8	1.1	6.4	1.853	5%
77	HCC-1C	2115	2115 S	subtidal	1	11.5	U	5.8	1.1	6.3	1.845	5%
78	HCC-1A	1109	1109S	subtidal	1	5.7	J	5.7	1.1	6.3	1.836	5%
79	HCC-1B	3207	3207I	intertidal	2	5.5	J	5.5	1.1	6.1	1.800	5%
80	HCC-1A	1104	1104S	subtidal	1	5.3	J	5.3	1.1	5.8	1.763	--
81	HCC-1B	3201		intertidal	4	5.2	JM(3)	5.2	1.1	5.8	1.750	--
82	HCC-1B	5212	5212I	intertidal	6	5.1	J	5.1	1.1	5.6	1.725	--
83	HCC-1B	3217	3217I	intertidal	2	4.9	J	4.9	1.1	5.4	1.685	--
84	HCC-1A	5109	5109S	subtidal	1	4.9	J	4.9	1.1	5.4	1.685	--
85	HCC-1B	1206	1206I	intertidal	4	4.7	J	4.7	1.1	5.2	1.643	--
86	HCC-1C	3110	3110 S	subtidal	1	9.4	U	4.7	1.1	5.2	1.643	--
87	HCC-1B	3216	3216I	intertidal	3	4.7	J	4.7	1.1	5.2	1.643	--
88	HCC-1B	3220	3220I	intertidal	3	4.6	J	4.6	1.1	5.1	1.621	--
89	HCC-1A	5103	5103S	subtidal	1	4.6	J	4.6	1.1	5.1	1.621	--
90	HCC-1A	1112	1112S	subtidal	1	4.5	J	4.5	1.1	5.0	1.599	--
91	HCC-1A	5112	5112S	subtidal	1	4.5	J	4.5	1.1	5.0	1.599	--
92	HCC-1B	3219	3219I	intertidal	3	4.4	J	4.4	1.1	4.8	1.577	--
93	HCC-1A	4110	4110S	subtidal	1	4.4	J	4.4	1.1	4.8	1.577	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-9. Sampling data used to map injury footprints for Antimony (Sb) in Hylebos Waterway. Injury threshold = 5.9 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
94	HCC-1C	1133	1133 S	subtidal	1	8.6	U	4	1.1	4.7	1.554	--
95	HCC-1B	3204	3204I	intertidal	3	4.3	J	4.3	1.1	4.7	1.554	--
96	HCC-1A	4111	4111S	subtidal	1	4.3	J	4.3	1.1	4.7	1.554	--
97	HCC-1B	1204	1204I	intertidal	4	4.0	J	4.0	1.1	4.4	1.482	--
98	HCC-1A	2102	2102S	subtidal	1	4.0	J	4.0	1.1	4.4	1.482	--
99	HCC-1C	1118	1118 S	subtidal	1	7.8	U	4	1.1	4.3	1.456	--
100	HCC-1A	2110	2110S	subtidal	1	3.9	J	3.9	1.1	4.3	1.456	--
101	HCC-1A	4105	4105S	subtidal	1	3.8	J	3.8	1.1	4.2	1.430	--
102	HCC-1A	4103	4103S	subtidal	1	3.7	J	3.7	1.1	4.1	1.404	--
103	HCC-1C	1123	1123 S	subtidal	1	7.2	U	4	1.1	4.0	1.376	--
104	HCC-1B	1202	1202I	intertidal	4	3.6	J	3.6	1.1	4.0	1.376	--
105	HCC-1C	1125	1125 S	subtidal	1	7.0	U	4	1.1	3.9	1.348	--
106	HCC-1B	1203	1203I	intertidal	7	3.5	J	3.5	1.1	3.9	1.348	--
107	HCC-1A	2104	2104S	subtidal	1	3.5	J	3.5	1.1	3.9	1.348	--
108	HCC-1B	3203	3203I	intertidal	2	3.5	J	3.5	1.1	3.9	1.348	--
109	HCC-1A	4104	4104S	subtidal	1	3.4	J	3.4	1.1	3.7	1.319	--
110	HCC-1B	5214	5214I	intertidal	6	3.4	J	3.4	1.1	3.7	1.319	--
111	HCC-1C	2113	2113 S	subtidal	1	6.6	U	3.3	1.1	3.6	1.289	--
112	HCC-1A	3105	3105S	subtidal	1	3.3	J	3.3	1.1	3.6	1.289	--
113	HCC-1A	5111	5111S	subtidal	1	3.3	J	3.3	1.1	3.6	1.289	--
114	HCC-1A	5107		subtidal	1	3.2	JM(4)	3.2	1.1	3.5	1.266	--
115	HCC-1A	1103	1103S	subtidal	1	3.2	J	3.2	1.1	3.5	1.258	--
116	HCC-1B	1209	1209I	intertidal	3	3.2	J	3.2	1.1	3.5	1.258	--
117	HCC-1B	1211	1211I	intertidal	2	3.2	J	3.2	1.1	3.5	1.258	--
118	HCC-1B	3205	3205I	intertidal	2	3.2	J	3.2	1.1	3.5	1.258	--
119	HCC-1C	1120	1120 S	subtidal	1	6.3	U	3	1.1	3.5	1.243	--
120	HCC-1C	4119	4119 S	subtidal	1	6.3	U	3.2	1.1	3.5	1.243	--
121	HCC-1A	5110	5110S	subtidal	1	2.9	J	2.9	1.1	3.2	1.160	--
122	HCC-1C	5120	5120 S	subtidal	1	5.7	U	2.9	1.1	3.1	1.143	--
123	HCC-1A	2101	2101S	subtidal	1	2.8	J	2.8	1.1	3.1	1.125	--
124	HCC-1C	3112	3112 S	subtidal	1	5.6	U	2.8	1.1	3.1	1.125	--
125	HCC-1A	4101	4101S	subtidal	1	2.8	J	2.8	1.1	3.1	1.125	--
126	HCC-1A	5102	5102S	subtidal	1	2.8	J	2.8	1.1	3.1	1.125	--
127	HCC-1A	5104	5104S	subtidal	1	2.8	J	2.8	1.1	3.1	1.125	--
128	HCC-1C	5121	5121 S	subtidal	1	5.6	U	2.8	1.1	3.1	1.125	--
129	HCC-1A	5105	5105S	subtidal	1	2.7	J	2.7	1.1	3.0	1.089	--
130	HCC-1C	1119	1119 S	subtidal	1	5.3	U	3	1.1	2.9	1.070	--
131	HCC-1A	3106	3106S	subtidal	1	2.6	J	2.6	1.1	2.9	1.051	--
132	Co-Trustee	HY-19		subtidal	1	2.8	M(3)	2.8	1.0	2.8	1.026	--
133	HCC-1C	4116	4116 S	subtidal	1	4.9	U	2.5	1.1	2.7	0.991	--
134	HCC-1C	3108		subtidal	1	4.8	UM	2.4	1.1	2.6	0.971	--
135	HCC-1A	1111	1111S	subtidal	1	2.3	J	2.3	1.1	2.5	0.928	--
136	Co-Trustee	HY-25	207	subtidal	1	2.3		2.3	1.0	2.3	0.820	--
137	HCC-1A	1110	1110S	subtidal	1	1.9	J	1.9	1.1	2.1	0.737	--
138	HCC-1A	3104	3104S	subtidal	1	1.9	J	1.9	1.1	2.1	0.737	--
139	Co-Trustee	HY-17	61	subtidal	1	2.1		2.1	1.0	2.1	0.728	--
140	HCC-1A	1106	1106S	subtidal	1	1.7	J	1.7	1.1	1.9	0.626	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-9. Sampling data used to map injury footprints for Antimony (Sb) in Hylebos Waterway. Injury threshold = 5.9 ppm dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
141	HCC-1A	1113	1113S	subtidal	1	1.7	J	1.7	1.1	1.9	0.626	--
142	HCC-1A	3102	3102S	subtidal	1	1.7	J	1.7	1.1	1.9	0.626	--
143	Co-Trustee	HY-24	194	subtidal	1	1.8		1.8	1.0	1.8	0.604	--
144	HCC-1B	1214	1214I	intertidal	3	3.3	U	1.7	1.1	1.8	0.596	--
145	HCC-1B	2207	2207I	intertidal	2	3.3	U	1.7	1.1	1.8	0.596	--
146	HCC-1B	3213	3213I	intertidal	2	3.3	U	1.7	1.1	1.8	0.596	--
147	HCC-1B	4201	4201I	intertidal	4	3.3	U	1.7	1.1	1.8	0.596	--
148	HCC-1B	4210	4210I	intertidal	3	3.3	U	1.7	1.1	1.8	0.596	--
149	HCC-1A	5108	5108S	subtidal	1	3.3	U	1.7	1.1	1.8	0.596	--
150	HCC-1B	1210	1210I	intertidal	2	3.2	U	2	1.1	1.8	0.565	--
151	HCC-1A	3101	3101S	subtidal	1	3.2	U	1.6	1.1	1.8	0.565	--
152	HCC-1B	4202	4202I	intertidal	3	3.2	U	1.6	1.1	1.8	0.565	--
153	HCC-1B	4203	4203I	intertidal	2	3.2	U	1.6	1.1	1.8	0.565	--
154	HCC-1A	5114	5114S	subtidal	1	1.4	J	1.4	1.1	1.5	0.432	--
155	Co-Trustee	HY-26	222	subtidal	1	1.5		1.5	1.0	1.5	0.432	--
156	HCC-1A	5106	5106S	subtidal	1	2.7	U	1.4	1.1	1.5	0.395	--
157	Co-Trustee	HY-18	77	subtidal	1	1.5		1.5	1.0	1.5	0.378	--
158	Co-Trustee	HY-23	176	subtidal	1	1.4		1.4	1.0	1.4	0.307	--
159	HCC-1A	3103	3103S	subtidal	1	1.2	J	1.2	1.1	1.3	0.278	--
160	HCC-1A	5101	5101S	subtidal	1	1.2	J	1.2	1.1	1.3	0.278	--
161	Co-Trustee	HY-21	141	subtidal	1	1.2		1.2	1.0	1.2	0.157	--
162	Co-Trustee	HY-22	159	subtidal	1	1.1		1.1	1.0	1.1	0.113	--
163	Co-Trustee	HY-14		subtidal	1	1.1	M(2)	1.1	1.0	1.1	0.058	--
164	HCC-1A	5116	5116S	subtidal	1	0.9	J	0.9	1.1	1.0	0.000	--
165	HCC-1A	5115	5115S	subtidal	1	0.8	J	0.8	1.1	0.9	0.000**	--
166	HCC-1A	5113	5113S	subtidal	1	0.6	J	0.6	1.1	0.7	0.000**	--
167	Co-Trustee	HY-01	455	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
168	Co-Trustee	HY-02	442	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
169	Co-Trustee	HY-03	428	subtidal	1	1.0	UM(2)	0.5	1.0	0.5	0.000**	--
170	Co-Trustee	HY-04	418	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
171	Co-Trustee	HY-05	383	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
172	Co-Trustee	HY-06		subtidal	1	1.0	UM(3)	0.5	1.0	0.5	0.000**	--
173	Co-Trustee	HY-07	351	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
174	Co-Trustee	HY-08	318	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
175	Co-Trustee	HY-09	350	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
176	Co-Trustee	HY-10	338	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
177	Co-Trustee	HY-11	297	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
178	Co-Trustee	HY-12	279	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
179	Co-Trustee	HY-13	10	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
180	Co-Trustee	HY-15	33	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
181	Co-Trustee	HY-16	43	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
182	Co-Trustee	HY-20	130	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
183	Co-Trustee	HY-27	243	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--
184	Co-Trustee	HY-28	270	subtidal	1	1.0	U	0.5	1.0	0.5	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-10. Sampling data used to map injury footprints for Tributyltin (TBT) in Hylebos Waterway. Injury threshold = 138 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. as TBT-Sn**	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	1212	1212I	intertidal	2	5919		5919	1.0	5,919	8.686	20%
2	HCC-1C	3107	3107S	subtidal	1	1961		1961	1.0	1,961	7.581	20%
3	HCC-1B	1216	1216I	intertidal	3	1850		1850	1.0	1,850	7.523	20%
4	HCC-1B	5201	5201I	intertidal	2	962		962	1.0	962	6.869	5%
5	HCC-1A	3104	3104S	subtidal	1	860	M(4)	860	1.0	860	6.757	5%
6	HCC-1C	1118	1118S	subtidal	1	444		444	1.0	444	6.096	5%
7	HCC-1B	5202	5202I	intertidal	6	407		407	1.0	407	6.009	5%
8	HCC-1C	5215	5215 I	intertidal	2	359		359	1.0	359	5.883	5%
9	HCC-1C	1120	1120S	subtidal	1	344		344	1.0	344	5.841	5%
10	HCC-1C	1122	1122S	subtidal	1	318		318	1.0	318	5.763	5%
11	HCC-1A	1105	1105S	subtidal	1	255		255	1.0	255	5.542	5%
12	Co-Trustee	HY-25	00207	subtidal	1	238		238	1.0	238	5.472	5%
13	Co-Trustee	HY-03	00428	subtidal	1	230	M	229.5	1.0	230	5.436	5%
14	Co-Trustee	HY-20	00130	subtidal	1	225		225	1.0	225	5.416	5%
15	Co-Trustee	HY-24	00194	subtidal	1	225	M	225	1.0	225	5.416	5%
16	Co-Trustee	HY-19		subtidal	1	206	M(3)	205.667	1.0	206	5.326	5%
17	HCC-1C	3110	3110S	subtidal	1	200		200	1.0	200	5.297	5%
18	Co-Trustee	HY-16	00043	subtidal	1	199		199	1.0	199	5.293	5%
19	HCC-1C	1117	1117S	subtidal	1	196		196	1.0	196	5.279	5%
20	Co-Trustee	HY-18	00077	subtidal	1	184		184	1.0	184	5.215	5%
21	Co-Trustee	HY-26	00222	subtidal	1	181		181	1.0	181	5.198	5%
22	Co-Trustee	HY-10	00338	subtidal	1	179		179	1.0	179	5.187	5%
23	Co-Trustee	HY-21	00141	subtidal	1	174		174	1.0	174	5.159	5%
24	Co-Trustee	HY-28	00270	subtidal	1	174		174	1.0	174	5.159	5%
25	Co-Trustee	HY-09	00350	subtidal	1	169		169	1.0	169	5.130	5%
26	HCC-1C	1133	1133S	subtidal	1	155		155	1.0	155	5.043	5%
27	HCC-1C	1121	1121S	subtidal	1	141		141	1.0	141	4.946	5%
28	Co-Trustee	HY-14	00019	subtidal	1	140		140	1.0	140	4.942	5%
29	Co-Trustee	HY-27	00243	subtidal	1	136		136	1.0	136	4.913	--
30	Co-Trustee	HY-15	00033	subtidal	1	129	M	129	1.0	129	4.860	--
31	Co-Trustee	HY-23	00176	subtidal	1	128		128	1.0	128	4.852	--
32	HCC-1C	1124	1124S	subtidal	1	122		122	1.0	122	4.805	--
33	Co-Trustee	HY-04	00418	subtidal	1	122		122	1.0	122	4.804	--
34	HCC-1A	1108	1108S	subtidal	1	118		118	1.0	118	4.774	--
35	HCC-1A	1101		subtidal	1	111	M	111	1.0	111	4.709	--
36	Co-Trustee	HY-07	00351	subtidal	1	90.2		90.2	1.0	90	4.502	--
37	HCC-1C	3109	3109S	subtidal	1	89		89	1.0	89	4.486	--
38	Co-Trustee	HY-22	00159	subtidal	1	81.9		81.90	1.0	82	4.405	--
39	HCC-1C	2115	2115S	subtidal	1	81		81	1.0	81	4.399	--
40	Co-Trustee	HY-12	00279	subtidal	1	78.8		78.8	1.0	79	4.367	--
41	HCC-1A	1113	1113S	subtidal	1	74		74	1.0	74	4.304	--
42	HCC-1B	2211	2211I	intertidal	2	74		74	1.0	74	4.304	--
43	HCC-1A	2101	2101S	subtidal	1	70		70	1.0	70	4.253	--
44	HCC-1C	2112	2112S	subtidal	1	67		67	1.0	67	4.200	--
45	HCC-1A	1103	1103S	subtidal	1	67		67	1.0	67	4.199	--
46	HCC-1A	2103	2103S	subtidal	1	67		67	1.0	67	4.199	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

** For Surveys HCC-1A and 1B, concentrations as TBT-Sn derived by dividing reported TBT-Cl concentrations by 2.703.

Table D-10. Sampling data used to map injury footprints for Tributyltin (TBT) in Hylebos Waterway. Injury threshold = 138 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. as TBT-Sn**	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
47	Co-Trustee	HY-05	00383	subtidal	1	64.8		64.8	1.0	65	4.171	--
48	HCC-1A	1111	1111S	subtidal	1	59		59	1.0	59	4.081	--
49	HCC-1A/C	2108	2108S	subtidal	1	58	JM	58	1.0	58	4.055	--
50	HCC-1A	5101	5101S	subtidal	1	55		55	1.0	55	4.016	--
51	HCC-1C	3216	3216I	intertidal	3	53		53	1.0	53	3.967	--
52	Co-Trustee	HY-06		subtidal	1	52.5	M(3)	52.5	1.0	53	3.961	--
53	HCC-1B	1213	1213I	intertidal	4	52		52	1.0	52	3.947	--
54	HCC-1A	2106	2106S	subtidal	1	52		52	1.0	52	3.947	--
55	Co-Trustee	HY-11	00297	subtidal	1	50.6		50.6	1.0	51	3.924	--
56	HCC-1A	3106	3106S	subtidal	1	48	M(4)	48	1.0	48	3.875	--
57	HCC-1B	1217	1217I	intertidal	5	48		48	1.0	48	3.873	--
58	HCC-1C	1126	1126S	subtidal	1	44		44	1.0	44	3.793	--
59	Co-Trustee	HY-02	00442	subtidal	1	43.6		43.6	1.0	44	3.775	--
60	Co-Trustee	HY-01	00455	subtidal	1	37.1		37.1	1.0	37	3.614	--
61	HCC-1C	1125	1125S	subtidal	1	37		37	1.0	37	3.611	--
62	HCC-1C	2114	2114S	subtidal	1	37		37	1.0	37	3.611	--
63	HCC-1B	2212	2212I	intertidal	3	36		36	1.0	36	3.591	--
64	HCC-1A	5112	5112S	subtidal	1	36		36	1.0	36	3.570	--
65	HCC-1C	4117	4117S	subtidal	1	35		35	1.0	35	3.560	--
66	HCC-1C	5120	5120S	subtidal	1	34		34	1.0	34	3.538	--
67	HCC-1B	1210	1210I	intertidal	2	34		34	1.0	34	3.527	--
68	HCC-1C	4120	4120S	subtidal	1	31		31	1.0	31	3.448	--
69	Co-Trustee	HY-08	00318	subtidal	1	31.0		31.0	1.0	31	3.434	--
70	HCC-1A	4105	4105S	subtidal	1	31		31	1.0	31	3.424	--
71	HCC-1B	1211	1211I	intertidal	2	30		30	1.0	30	3.400	--
72	HCC-1C	1119	1119S	subtidal	1	27		27	1.0	27	3.282	--
73	HCC-1C	4119	4119S	subtidal	1	26		26	1.0	26	3.268	--
74	HCC-1B	3209	3209I	intertidal	3	25		25	1.0	25	3.225	--
75	HCC-1A	5115	5115S	subtidal	1	21		21	1.0	21	3.049	--
76	HCC-1B	2208	2208I	intertidal	2	21		21	1.0	21	3.031	--
77	HCC-1B	3212	3212I	intertidal	2	19		19	1.0	19	2.957	--
78	HCC-1C	5121	5121S	subtidal	1	16		16	1.0	16	2.790	--
79	Co-Trustee	HY-17	00061	subtidal	1	15.5		15.5	1.0	16	2.741	--
80	Co-Trustee	HY-13	00010	subtidal	1	14.9		14.9	1.0	15	2.701	--
81	HCC-1A	5107		subtidal	1	15	JM(4)	15	1.0	15	2.676	--
82	HCC-1C	4118	4118S	subtidal	1	36		13	1.0	13	2.586	--
83	HCC-1A	5103	5103S	subtidal	1	10	J	10	1.0	10	2.338	--
84	HCC-1C	1123	1123S	subtidal	1	8	J	8	1.0	8	2.097	--
85	HCC-1B	4205	4205I	intertidal	3	5	J	5	1.0	5	1.645	--
86	HCC-1C	2113	2113S	subtidal	1	4	J	4	1.0	4	1.404	--
87	HCC-1B	4206	4206I	intertidal	3	4	J	4	1.0	4	1.404	--
88	HCC-1C	4116	4116S	subtidal	1	6	U	3	1.0	3	1.030	--
89	HCC-1B	5213	5213I	intertidal	4	4	U	2	1.0	2	0.588	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

** For Surveys HCC-1A and 1B, concentrations as TBT-Sn derived by dividing reported TBT-Cl concentrations by 2.703.

Table D-11. Sampling data used to map injury footprints for Zinc (Zn) in Hylebos Waterway. Injury threshold = 410 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
1	HCC-1B	3214	3214I	intertidal	2	16200	J	16200	1.1	17,820	9.788	20%
2	HCC-1B	2202	2202I	intertidal	2	9280		9280	1.1	10,208	9.23	20%
3	HCC-1B	5202	5202I	intertidal	6	2260		2260	1.1	2,486	7.82	15%
4	HCC-1B	1216	1216I	intertidal	3	1890		1890	1.1	2,079	7.640	15%
5	HCC-1B	4205	4205I	intertidal	3	1770	J	1770	1.1	1,947	7.574	15%
6	HCC-1B	1217	1217I	intertidal	5	1630		1630	1.1	1,793	7.492	15%
7	HCC-1B	5201	5201I	intertidal	2	1570		1570	1.1	1,727	7.454	15%
8	HCC-1B	2211	2211I	intertidal	2	1430		1430	1.1	1,573	7.361	10%
9	HCC-1B	5203	5203I	intertidal	2	1410	J	1410	1.1	1,551	7.347	10%
10	HCC-1C	2112	2112S	subtidal	1	1140		1140	1.1	1,254	7.134	10%
11	HCC-1B	4207	4207I	intertidal	3	1050		1050	1.1	1,155	7.052	10%
12	HCC-1B	3221	3221I	intertidal	3	806		806	1.1	887	6.787	10%
13	HCC-1C	4119	4119S	subtidal	1	782		782	1.1	860	6.757	10%
14	HCC-1C	5215	5215 I	intertidal	2	750		750	1.1	825	6.715	10%
15	HCC-1C	2115	2115S	subtidal	1	612		612	1.1	673	6.512	10%
16	HCC-1B	5206	5206I	intertidal	2	587		587	1.1	646	6.470	10%
17	HCC-1C	4117	4117S	subtidal	1	527		527	1.1	580	6.363	10%
18	HCC-1B	5211	5211I	intertidal	2	487	J	487	1.1	536	6.284	10%
19	Co-Trustee	HY-16	43	subtidal	1	530		530	1	530	6.273	5%
20	HCC-1A	1105	1105S	subtidal	1	459	J	459	1.1	505	6.224	5%
21	HCC-1B	3210	3210I	intertidal	2	421	J	421	1.1	463	6.138	5%
22	HCC-1C	2114	2114S	subtidal	1	419		419	1.1	461	6.133	5%
23	HCC-1B	5210		intertidal	2	409	J	409	1.1	450	6.109	5%
24	HCC-1A	1102	1102S	subtidal	1	398	J	398	1.1	438	6.082	5%
25	HCC-1C	1117	1117 S	subtidal	1	397		397	1.1	437	6.079	5%
26	HCC-1B	1212	1212I	intertidal	2	390		390	1.1	429	6.061	5%
27	HCC-1B	2212	2212I	intertidal	3	378		378	1.1	416	6.030	5%
28	Co-Trustee	HY-23	176	subtidal	1	380		380	1	380	5.940	--
29	HCC-1A	1103	1103S	subtidal	1	345		345	1.1	380	5.939	--
30	Co-Trustee	HY-25	207	subtidal	1	376		376	1	376	5.930	--
31	Co-Trustee	HY-26	222	subtidal	1	347		347	1	347	5.849	--
32	HCC-1B	4204	4204I	intertidal	4	311		311	1.1	342	5.835	--
33	Co-Trustee	HY-24	194	subtidal	1	329		329	1	329	5.796	--
34	HCC-1B	5207	5207I	intertidal	2	298		298	1.1	328	5.792	--
35	HCC-1C	1124	1124 S	subtidal	1	297		297	1.1	327	5.789	--
36	HCC-1C	1126	1126 S	subtidal	1	280		280	1.1	308	5.730	--
37	HCC-1A	1101		subtidal	1	275.75	JM(4)	276	1.1	303	5.715	--
38	HCC-1C	1122	1122 S	subtidal	1	274		274	1.1	301	5.708	--
39	HCC-1A	2110	2110S	subtidal	1	269		269	1.1	296	5.690	--
40	HCC-1B	2209	2209I	intertidal	2	269		269	1.1	296	5.690	--
41	HCC-1B	3212	3212I	intertidal	2	268	J	268	1.1	295	5.686	--
42	HCC-1B	1208	1208I	intertidal	2	266		266	1.1	293	5.679	--
43	HCC-1C	1121	1121S	subtidal	1	261		261	1.1	287	5.660	--
44	HCC-1A	1104	1104S	subtidal	1	261	J	261	1.1	287	5.660	--
45	HCC-1A	1107	1107S	subtidal	1	259	J	259	1.1	285	5.652	--
46	HCC-1A	2106	2106S	subtidal	1	252	J	252	1.1	277	5.625	--

* Intertidal sediment sampling stations contain two or more data points. For explanation, see Step 8, Appendix E

Table D-11. Sampling data used to map injury footprints for Zinc (Zn) in Hylebos Waterway. Injury threshold = 410 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
47	HCC-1A	1106	1106S	subtidal	1	244		244	1.1	268	5.592	--
48	HCC-1A	1110	1110S	subtidal	1	244		244	1.1	268	5.592	--
49	HCC-1B	2210	2210I	intertidal	5	244		244	1.1	268	5.592	--
50	HCC-1B	5209	5209I	intertidal	5	240	J	240	1.1	264	5.576	--
51	Co-Trustee	HY-28	270	subtidal	1	263		263	1	263	5.572	--
52	HCC-1A	1111	1111S	subtidal	1	238		238	1.1	262	5.568	--
53	HCC-1B	1213	1213I	intertidal	4	238		238	1.1	262	5.568	--
54	HCC-1B	3216	3216I	intertidal	3	236	J	236	1.1	260	5.559	--
55	HCC-1A	1108	1108S	subtidal	1	232	J	232	1.1	255	5.542	--
56	HCC-1A	1113	1113S	subtidal	1	230		230	1.1	253	5.533	--
57	HCC-1A	2104	2104S	subtidal	1	229		229	1.1	252	5.529	--
58	HCC-1A	2109	2109S	subtidal	1	223	J	223	1.1	245	5.502	--
59	HCC-1A	2102	2102S	subtidal	1	221		221	1.1	243	5.493	--
60	Co-Trustee	HY-20	130	subtidal	1	243		243	1	243	5.493	--
61	HCC-1A	2105	2105S	subtidal	1	220	J	220	1.1	242	5.489	--
62	HCC-1A	2107	2107S	subtidal	1	219	J	219	1.1	241	5.484	--
63	HCC-1B	3215	3215I	intertidal	2	219	J	219	1.1	241	5.484	--
64	Co-Trustee	HY-19		subtidal	1	238	M	238	1	238	5.472	--
65	HCC-1B	4209	4209I	intertidal	2	214		214	1.1	235	5.461	--
66	HCC-1A	2103	2103S	subtidal	1	210	J	210	1.1	231	5.442	--
67	HCC-1B	2206	2206I	intertidal	6	209		209	1.1	230	5.438	--
68	HCC-1B	5213	5213I	intertidal	4	209	J	209	1.1	230	5.438	--
69	HCC-1A	5113	5113S	subtidal	1	207		207	1.1	228	5.428	--
70	HCC-1C	4118	4118 S	subtidal	1	206		206	1.1	227	5.423	--
71	HCC-1A	2111	2111S	subtidal	1	206		206	1.1	227	5.423	--
72	HCC-1A	4107	4107S	subtidal	1	202		202	1.1	222	5.404	--
73	Co-Trustee	HY-21	141	subtidal	1	221		221	1	221	5.398	--
74	HCC-1A	2108	2108S	subtidal	1	200	J	200	1.1	220	5.394	--
75	HCC-1B	5208	5208I	intertidal	2	200	J	200	1.1	220	5.394	--
76	HCC-1C	3109	3109S	subtidal	1	192		192	1.1	211	5.353	--
77	Co-Trustee	HY-27	243	subtidal	1	210		210	1	210	5.347	--
78	HCC-1A	1112	1112S	subtidal	1	190	J	190	1.1	209	5.342	--
79	HCC-1A	1109	1109S	subtidal	1	189	J	189	1.1	208	5.337	--
80	HCC-1C	1133	1133S	subtidal	1	187		187	1.1	206	5.326	--
81	HCC-1B	4206	4206I	intertidal	3	185	J	185	1.1	204	5.316	--
82	HCC-1B	2214	2214I	intertidal	2	183		183	1.1	201	5.305	--
83	Co-Trustee	HY-22	159	subtidal	1	200		200	1	200	5.298	--
84	HCC-1B	5205	5205I	intertidal	2	179		179	1.1	197	5.283	--
85	HCC-1B	1201		intertidal	2	176.5	JM(4)	177	1.1	194	5.269	--
86	HCC-1C	3107	3107S	subtidal	1	176		176	1.1	194	5.266	--
87	HCC-1A	2101	2101S	subtidal	1	174		174	1.1	191	5.254	--
88	HCC-1A	3105	3105S	subtidal	1	173		173	1.1	190	5.249	--
89	HCC-1A	3106	3106S	subtidal	1	164		164	1.1	180	5.195	--
90	HCC-1B	2205	2205I	intertidal	3	161		161	1.1	177	5.177	--
91	Co-Trustee	HY-18	77	subtidal	1	173		173	1	173	5.153	--
92	HCC-1B	2208	2208I	intertidal	2	156		156	1.1	172	5.145	--
93	HCC-1B	1207	1207I	intertidal	2	155		155	1.1	171	5.139	--

* Intertidal sediment sampling stations contain two or more data points. For explanation, see Step 8, Appendix E

Table D-11. Sampling data used to map injury footprints for Zinc (Zn) in Hylebos Waterway. Injury threshold = 410 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
94	HCC-1B	2213	2213I	intertidal	4	154		154	1.1	169	5.132	--
95	HCC-1A	4109		subtidal	1	150.75	JM(4)	151	1.1	166	5.111	--
96	Co-Trustee	HY-06		subtidal	1	165	M	165	1	165	4.868	--
97	HCC-1B	4210	4210I	intertidal	3	149		149	1.1	164	5.099	--
98	HCC-1B	2204	2204I	intertidal	4	148		148	1.1	163	5.093	--
99	Co-Trustee	HY-03	428	subtidal	1	160	M	160	1	160	5.075	--
100	HCC-1C	1125	1125S	subtidal	1	145		145	1.1	160	5.072	--
101	HCC-1A	4110	4110S	subtidal	1	144		144	1.1	158	5.065	--
102	HCC-1C	1120	1120S	subtidal	1	142		142	1.1	156	5.051	--
103	HCC-1C	2113	2113S	subtidal	1	139		139	1.1	153	5.030	--
104	HCC-1C	3110	3110 S	subtidal	1	137		137	1.1	151	5.015	--
105	HCC-1B	2215	2215I	intertidal	7	135		135	1.1	149	5.001	--
106	HCC-1B	3211	3211I	intertidal	4	135	J	135	1.1	149	5.001	--
107	HCC-1A	4106	4106S	subtidal	1	135	J	135	1.1	149	5.001	--
108	HCC-1A	3102	3102S	subtidal	1	131		131	1.1	144	4.971	--
109	HCC-1A	5101	5101S	subtidal	1	131		131	1.1	144	4.971	--
110	HCC-1A	4105	4105S	subtidal	1	129	J	129	1.1	142	4.955	--
111	HCC-1A	5111	5111S	subtidal	1	129		129	1.1	142	4.955	--
112	HCC-1A	3101	3101S	subtidal	1	128		128	1.1	141	4.947	--
113	HCC-1A	4111	4111S	subtidal	1	128		128	1.1	141	4.947	--
114	HCC-1A	5103	5103S	subtidal	1	125		125	1.1	138	4.924	--
115	HCC-1B	4208		intertidal	3	124.875	JM(4)	125	1.1	137	4.923	--
116	HCC-1B	3204	3204I	intertidal	3	124	J	124	1.1	136	4.916	--
117	Co-Trustee	HY-15	33	subtidal	1	132		132	1	132	4.883	--
118	HCC-1A	4115	4115S	subtidal	1	119	J	119	1.1	131	4.874	--
119	Co-Trustee	HY-10	338	subtidal	1	129		129	1	129	4.860	--
120	HCC-1C	1118	1118 S	subtidal	1	117		117	1.1	129	4.857	--
121	HCC-1A	5114	5114S	subtidal	1	117		117	1.1	129	4.857	--
122	HCC-1A	3104	3104S	subtidal	1	115		115	1.1	127	4.840	--
123	Co-Trustee	HY-04	418	subtidal	1	124		124	1	124	4.820	--
124	HCC-1A	5115	5115S	subtidal	1	112		112	1.1	123	4.814	--
125	HCC-1A	5116	5116S	subtidal	1	111		111	1.1	122	4.805	--
126	HCC-1B	1215	1215I	intertidal	4	110		110	1.1	121	4.796	--
127	HCC-1A	4108	4108S	subtidal	1	110	J	110	1.1	121	4.796	--
128	HCC-1A	5110	5110S	subtidal	1	110		110	1.1	121	4.796	--
129	HCC-1A	5108	5108S	subtidal	1	109		109	1.1	120	4.787	--
130	HCC-1C	4120	4120 S	subtidal	1	108		108	1.1	119	4.777	--
131	HCC-1A	4104	4104S	subtidal	1	108		108	1.1	119	4.777	--
132	HCC-1A	5109	5109S	subtidal	1	108		108	1.1	119	4.777	--
133	HCC-1A	5112	5112S	subtidal	1	106		106	1.1	117	4.759	--
134	HCC-1A	5106	5106S	subtidal	1	104		104	1.1	114	4.740	--
135	Co-Trustee	HY-09	350	subtidal	1	109		109	1	109	4.691	--
136	Co-Trustee	HY-14	19	subtidal	1	97.8	M	97.8	1	109	4.691	--
137	HCC-1B	3206	3206I	intertidal	3	96.8	J	96.8	1.1	106	4.668	--
138	Co-Trustee	HY-12	279	subtidal	1	104		104	1	104	4.644	--
139	HCC-1B	3217	3217I	intertidal	2	93.9	J	93.9	1.1	103	4.638	--
140	Co-Trustee	HY-07	351	subtidal	1	103		103	1	103	4.635	--

* Intertidal sediment sampling stations contain two or more data points. For explanation, see Step 8, Appendix E

Table D-11. Sampling data used to map injury footprints for Zinc (Zn) in Hylebos Waterway. Injury threshold = 410 ppm dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppm	Qual. Code	Revised Conc. ppm	Adj. Factor	Adjusted Conc. ppm	Ln Conc.	Injury Level
141	HCC-1A	4102	4102S	subtidal	1	92.5		92.5	1.1	102	4.623	--
142	HCC-1A	3103	3103S	subtidal	1	92.0		92.0	1.1	101	4.617	--
143	HCC-1B	5214	5214I	intertidal	6	92.0	J	92.0	1.1	101	4.617	--
144	HCC-1A	4103	4103S	subtidal	1	91.0		91.0	1.1	100	4.606	--
145	HCC-1B	1206	1206I	intertidal	4	90.8		90.8	1.1	100	4.604	--
146	Co-Trustee	HY-02	442	subtidal	1	98.1		98.1	1	98.1	4.586	--
147	Co-Trustee	HY-05	383	subtidal	1	97.7		97.7	1	97.7	4.582	--
148	Co-Trustee	HY-11	297	subtidal	1	97.4		97.4	1	97.4	4.579	--
149	Co-Trustee	HY-08	318	subtidal	1	97.2		97.2	1	97.2	4.577	--
150	HCC-1B	1204	1204I	intertidal	4	88.0		88.0	1.1	96.8	4.573	--
151	HCC-1B	3201		intertidal	4	87.8	JM(4)	87.8	1.1	96.6	4.570	--
152	Co-Trustee	HY-17	61	subtidal	1	95.5		95.5	1	95.5	4.559	--
153	HCC-1B	1211	1211I	intertidal	2	86.8		86.8	1.1	95.5	4.559	--
154	HCC-1C	3112	3112 S	subtidal	1	85.9		85.9	1.1	94.5	4.548	--
155	HCC-1A	5107		subtidal	1	85.0	M(4)	85.0	1.1	93.5	4.538	--
156	HCC-1A	5104	5104S	subtidal	1	83.9		83.9	1.1	92.3	4.525	--
157	HCC-1C	1119	1119 S	subtidal	1	83.7		83.7	1.1	92.1	4.523	--
158	HCC-1B	3213	3213I	intertidal	2	82.6	J	82.6	1.1	90.9	4.509	--
159	HCC-1B	3209	3209I	intertidal	3	79.6	J	79.6	1.1	87.6	4.472	--
160	HCC-1A	4101	4101S	subtidal	1	79.2		79.2	1.1	87.1	4.467	--
161	HCC-1B	1203	1203I	intertidal	7	77.8		77.8	1.1	85.6	4.449	--
162	HCC-1B	3205	3205I	intertidal	2	77.2	J	77.2	1.1	84.9	4.442	--
163	HCC-1C	5120	5120 S	subtidal	1	76.4		76.4	1.1	84.0	4.431	--
164	HCC-1B	1214	1214I	intertidal	3	74.8		74.8	1.1	82.3	4.410	--
165	HCC-1B	1210	1210I	intertidal	2	72.0		72.0	1.1	79.2	4.372	--
166	HCC-1C	1123	1123 S	subtidal	1	70.6		70.6	1.1	77.7	4.352	--
167	HCC-1B	3203	3203I	intertidal	2	69.2	J	69.2	1.1	76.1	4.332	--
168	HCC-1B	5212	5212I	intertidal	6	68.8	J	68.8	1.1	75.7	4.327	--
169	HCC-1A	5102	5102S	subtidal	1	68.7		68.7	1.1	75.6	4.325	--
170	Co-Trustee	HY-13	10	subtidal	1	71.4		71.4	1	71.4	4.268	--
171	HCC-1B	3207	3207I	intertidal	2	64.6		64.6	1.1	71.1	4.264	--
172	HCC-1B	1202	1202I	intertidal	4	61.7	J	61.7	1.1	67.9	4.218	--
173	HCC-1A	5105	5105S	subtidal	1	59.3		59.3	1.1	65.2	4.178	--
174	HCC-1B	4202	4202I	intertidal	3	59.0		59.0	1.1	64.9	4.173	--
175	HCC-1B	3219	3219I	intertidal	3	58.9	J	58.9	1.1	64.8	4.171	--
176	Co-Trustee	HY-01	455	subtidal	1	63.4		63.4	1	63.4	4.149	--
177	HCC-1C	5121	5121 S	subtidal	1	56.5		56.5	1.1	62.2	4.130	--
178	HCC-1B	1209	1209I	intertidal	3	54.8		54.8	1.1	60.3	4.099	--
179	HCC-1B	4201	4201I	intertidal	4	53.7		53.7	1.1	59.1	4.079	--
180	HCC-1B	2207	2207I	intertidal	2	50.6		50.6	1.1	55.7	4.019	--
181	HCC-1B	3220	3220I	intertidal	3	48.8	J	48.8	1.1	53.7	3.983	--
182	HCC-1C	4116	4116 S	subtidal	1	48.6		48.6	1.1	53.5	3.979	--
183	HCC-1C	3108		subtidal	1	45.5	M	45.5	1.1	50.1	3.913	--
184	HCC-1B	4203	4203I	intertidal	2	45.3		45.3	1.1	49.8	3.909	--

* Intertidal sediment sampling stations contain two or more data points. For explanation, see Step 8, Appendix E

Table D-12. Sampling data used to map injury footprints for 1,2,4-Trichlorobenzene (TCB) in Hylebos Waterway. Injury threshold =31 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	5203	5203I	intertidal	2	1100		1100	1.7	1,870.0	7.534	20%
2	HCC-1B	5209	5209I	intertidal	5	86		86	1.7	146.2	4.985	20%
3	Co-Trustee	HY-10	00326	subtidal	1	110		110.0	1.0	110.0	4.700	20%
4	HCC-1A	5108	5108S	subtidal	1	63		63	1.7	107.1	4.674	20%
5	Co-Trustee	HY-06		subtidal	1	84		84.3	1.0	84.3	4.435	20%
6	HCC-1A	5111	5111S	subtidal	1	49		49	1.7	83.3	4.422	20%
7	Co-Trustee	HY-08	00313	subtidal	1	74		74.0	1.0	74.0	4.304	20%
8	HCC-1B	5205	5205I	intertidal	2	40		40	1.7	68.0	4.220	20%
9	HCC-1B	5210		intertidal	2	40	J	40	1.7	68.0	4.220	20%
10	HCC-1B	5208	5208I	intertidal	2	38	J	38	1.7	64.6	4.168	20%
11	Co-Trustee	HY-09	00348	subtidal	1	59		59.0	1.0	59.0	4.078	10%
12	HCC-1B	5211	5211I	intertidal	2	27	J	27	1.7	45.9	3.826	5%
13	Co-Trustee	HY-07	00352	subtidal	1	45		45.0	1.0	45.0	3.807	5%
14	Co-Trustee	HY-11	00295	subtidal	1	42		42.0	1.0	42.0	3.738	5%
15	Co-Trustee	HY-19		subtidal	1	40	M(3)	40.3	1.0	40.3	3.697	5%
16	Co-Trustee	HY-21	00136	subtidal	1	37		37.0	1.0	37.0	3.611	5%
17	Co-Trustee	HY-12	00275	subtidal	1	35		35.0	1.0	35.0	3.555	5%
18	Co-Trustee	HY-05	00380	subtidal	1	31		31.0	1.0	31.0	3.434	--
19	Co-Trustee	HY-18	00082	subtidal	1	30		30.0	1.0	30.0	3.401	--
20	Co-Trustee	HY-02	00443	subtidal	1	29		29.0	1.0	29.0	3.367	--
21	Co-Trustee	HY-20	00127	subtidal	1	25		25.0	1.0	25.0	3.219	--
22	Co-Trustee	HY-04	00420	subtidal	1	22		22.0	1.0	22.0	3.091	--
23	Co-Trustee	HY-22	00156	subtidal	1	21		21.0	1.0	21.0	3.045	--
24	Co-Trustee	HY-16	00044	subtidal	1	21	M(2)	20.5	1.0	20.5	3.020	--
25	Co-Trustee	HY-15	00031	subtidal	1	19		19.0	1.0	19.0	2.944	--
26	HCC-1A	5112	5112S	subtidal	1	10	J	10	1.7	17.0	2.833	--
27	HCC-1A	5113	5113S	subtidal	1	10	J	10	1.7	17.0	2.833	--
28	HCC-1A	2108	2108S	subtidal	1	9	J	9.0	1.7	15.3	2.728	--
29	HCC-1A	5106	5106S	subtidal	1	9	J	9	1.7	15.3	2.728	--
30	Co-Trustee	HY-14	00020	subtidal	1	15		15.0	1.0	15.0	2.708	--
31	Co-Trustee	HY-23	00173	subtidal	1	15		15.0	1.0	15.0	2.708	--
32	Co-Trustee	HY-03	00426	subtidal	1	14	M(3)	14.0	1.0	14.0	2.639	--
33	Co-Trustee	HY-17	00062	subtidal	1	14		14.0	1.0	14.0	2.639	--
34	Co-Trustee	HY-25	00204	subtidal	1	14		14.0	1.0	14.0	2.639	--
35	HCC-1B	5207	5207I	intertidal	2	8	J	8	1.7	13.6	2.610	--
36	Co-Trustee	HY-24	00191	subtidal	1	12		12.0	1.0	12.0	2.485	--
37	HCC-1A	1108	1108S	subtidal	1	14.0	U	7.0	1.7	11.9	2.477	--
38	HCC-1A	5107		subtidal	1	6.9	UM(4)	6.9	1.7	11.7	2.462	--
39	HCC-1A	1105	1105S	subtidal	1	13.0	U	6.5	1.7	11.1	2.402	--
40	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
41	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
42	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
43	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
44	Co-Trustee	HY-26	00217	subtidal	1	11		11.0	1.0	11.0	2.398	--
45	HCC-1A	1101		subtidal	1	13	UM(4)	6.3	1.7	10.6	2.363	--
46	HCC-1B	3201		intertidal	4	13	UM(4)	6.3	1.7	10.6	2.363	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-12. Sampling data used to map injury footprints for 1,2,4-Trichlorobenzene (TCB) in Hylebos Waterway. Injury threshold =31 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	HCC-1A	1104	1104S	subtidal	1	12.0	U	6.0	1.7	10.2	2.322	--
48	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
49	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
50	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
51	HCC-1A	1106	1106S	subtidal	1	11	U	5.5	1.7	9.4	2.235	--
52	HCC-1A	1107	1107S	subtidal	1	11.0	U	5.5	1.7	9.4	2.235	--
53	HCC-1A	1111	1111S	subtidal	1	11.0	U	5.5	1.7	9.4	2.235	--
54	HCC-1A	2102	2102S	subtidal	1	11.0	U	5.5	1.7	9.4	2.235	--
55	HCC-1A	2107	2107S	subtidal	1	11.0	U	5.5	1.7	9.4	2.235	--
56	HCC-1A	2109	2109S	subtidal	1	11.0	U	5.5	1.7	9.4	2.235	--
57	HCC-1B	4209	4209I	intertidal	2	11.0	U	5.5	1.7	9.4	2.235	--
58	HCC-1A	1103	1103S	subtidal	1	10.0	U	5.0	1.7	8.5	2.140	--
59	HCC-1A	1113	1113S	subtidal	1	10.0	U	5.0	1.7	8.5	2.140	--
60	HCC-1C	1125	1125 S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
61	HCC-1A	2111	2111S	subtidal	1	10.0	U	5.0	1.7	8.5	2.140	--
62	HCC-1C	2112	2112 S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
63	HCC-1B	5206	5206I	intertidal	2	5	J	5	1.7	8.5	2.140	--
64	HCC-1A	1109	1109S	subtidal	1	9.9	U	5.0	1.7	8.4	2.130	--
65	HCC-1A	1112	1112S	subtidal	1	9.9	U	5.0	1.7	8.4	2.130	--
66	HCC-1B	1201		intertidal	2	10	UM(4)	5.0	1.7	8.4	2.130	--
67	HCC-1A	2105	2105S	subtidal	1	9.8	U	4.9	1.7	8.3	2.120	--
68	HCC-1C	3109	3109 S	subtidal	1	10	U	4.9	1.7	8.3	2.120	--
69	HCC-1B	3213	3213I	intertidal	2	9.8	U	4.9	1.7	8.3	2.120	--
70	HCC-1A	2104	2104S	subtidal	1	9.7	U	4.9	1.7	8.2	2.110	--
71	HCC-1A	2103	2103S	subtidal	1	9.5	U	4.8	1.7	8.1	2.089	--
72	HCC-1A	1102	1102S	subtidal	1	9.3	U	4.7	1.7	7.9	2.067	--
73	HCC-1A	1110	1110S	subtidal	1	9.2	U	4.6	1.7	7.8	2.057	--
74	HCC-1B	1208	1208I	intertidal	2	9.2	U	4.6	1.7	7.8	2.057	--
75	HCC-1A	2101	2101S	subtidal	1	9.2	U	4.6	1.7	7.8	2.057	--
76	HCC-1C	2114	2114 S	subtidal	1	9	U	4.6	1.7	7.7	2.046	--
77	HCC-1C	3110	3110 S	subtidal	1	9	U	4.6	1.7	7.7	2.046	--
78	HCC-1A	5109	5109S	subtidal	1	9.1	U	4.6	1.7	7.7	2.046	--
79	Co-Trustee	HY-27	00235	subtidal	1	8		7.7	1.0	7.7	2.041	--
80	HCC-1C	1117	1117 S	subtidal	1	9	U	4.5	1.7	7.7	2.035	--
81	HCC-1A	2106	2106S	subtidal	1	9.0	U	4.5	1.7	7.7	2.035	--
82	HCC-1B	3209	3209I	intertidal	3	9.0	U	4.5	1.7	7.7	2.035	--
83	HCC-1A	2110	2110S	subtidal	1	8.9	U	4.5	1.7	7.6	2.024	--
84	HCC-1A	3105	3105S	subtidal	1	8.9	U	4.5	1.7	7.6	2.024	--
85	HCC-1C	4120	4120 S	subtidal	1	9	U	4.5	1.7	7.6	2.024	--
86	HCC-1A	3101	3101S	subtidal	1	8.8	U	4.4	1.7	7.5	2.012	--
87	HCC-1A	4109		subtidal	1	9	UM(4)	4.4	1.7	7.5	2.012	--
88	Co-Trustee	HY-13	00012	subtidal	1	7		7.4	1.0	7.4	2.001	--
89	HCC-1A	3102	3102S	subtidal	1	8.7	U	4.4	1.7	7.4	2.001	--
90	HCC-1C	1123	1123 S	subtidal	1	9	U	4.3	1.7	7.3	1.989	--
91	HCC-1A	3106	3106S	subtidal	1	8.6	U	4.3	1.7	7.3	1.989	--
92	HCC-1A	4104	4104S	subtidal	1	8.5	U	4.3	1.7	7.2	1.978	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-12. Sampling data used to map injury footprints for 1,2,4-Trichlorobenzene (TCB) in Hylebos Waterway. Injury threshold =31 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
93	HCC-1A	4107	4107S	subtidal	1	8.5	U	4.3	1.7	7.2	1.978	--
94	HCC-1C	4117	4117 S	subtidal	1	8	U	4.2	1.7	7.1	1.966	--
95	HCC-1B	1215	1215I	intertidal	4	8.3	U	4.2	1.7	7.1	1.954	--
96	HCC-1A	4106	4106S	subtidal	1	8.3	U	4.2	1.7	7.1	1.954	--
97	Co-Trustee	HY-28	00256	subtidal	1	7	M(3)	7.0	1.0	7.0	1.946	--
98	HCC-1C	2115	2115 S	subtidal	1	8	U	4.1	1.7	7.0	1.942	--
99	HCC-1B	4208	4208I	intertidal	3	8	UM(4)	4.1	1.7	7.0	1.942	--
100	Co-Trustee	HY-01	00456	subtidal	1	7		6.9	1.0	6.9	1.932	--
101	HCC-1A	5110	5110S	subtidal	1	7.9	U	4.0	1.7	6.7	1.904	--
102	HCC-1A	5116	5116S	subtidal	1	7.9	U	4.0	1.7	6.7	1.904	--
103	HCC-1B	1216	1216I	intertidal	3	7.8	U	3.9	1.7	6.6	1.892	--
104	HCC-1A	5115	5115S	subtidal	1	7.8	U	3.9	1.7	6.6	1.892	--
105	HCC-1B	3210	3210I	intertidal	2	7.7	U	3.9	1.7	6.5	1.879	--
106	HCC-1A	4105	4105S	subtidal	1	7.6	U	3.8	1.7	6.5	1.866	--
107	HCC-1A	4115	4115S	subtidal	1	7.6	U	3.8	1.7	6.5	1.866	--
108	HCC-1A	5114	5114S	subtidal	1	7.6	U	3.8	1.7	6.5	1.866	--
109	HCC-1A	3104	3104S	subtidal	1	7.3	U	3.7	1.7	6.2	1.825	--
110	HCC-1A	4103	4103S	subtidal	1	7.3	U	3.7	1.7	6.2	1.825	--
111	HCC-1C	1120	1120 S	subtidal	1	7	U	3.6	1.7	6.1	1.812	--
112	HCC-1B	3215	3215I	intertidal	2	7.2	U	3.6	1.7	6.1	1.812	--
113	HCC-1C	1126	1126 S	subtidal	1	7	U	3.6	1.7	6.0	1.798	--
114	HCC-1B	2202	2202I	intertidal	2	7.1	U	3.6	1.7	6.0	1.798	--
115	HCC-1B	3204	3204I	intertidal	3	7.1	U	3.6	1.7	6.0	1.798	--
116	HCC-1B	3219	3219I	intertidal	3	7.1	U	3.6	1.7	6.0	1.798	--
117	HCC-1A	5104	5104S	subtidal	1	7.1	U	3.6	1.7	6.0	1.798	--
118	HCC-1B	2211	2211I	intertidal	2	7.0	U	3.5	1.7	6.0	1.783	--
119	HCC-1B	2215	2215I	intertidal	7	7.0	U	3.5	1.7	6.0	1.783	--
120	HCC-1B	3217	3217I	intertidal	2	7.0	U	3.5	1.7	6.0	1.783	--
121	HCC-1C	1122	1122 S	subtidal	1	7	U	3.5	1.7	5.9	1.769	--
122	HCC-1B	2206	2206I	intertidal	6	6.9	U	3.5	1.7	5.9	1.769	--
123	HCC-1B	3216	3216I	intertidal	3	6.9	U	3.5	1.7	5.9	1.769	--
124	HCC-1C	4118	4118 S	subtidal	1	7	U	3.5	1.7	5.9	1.769	--
125	HCC-1B	1202	1202I	intertidal	4	6.8	U	3.4	1.7	5.8	1.754	--
126	HCC-1B	3205	3205I	intertidal	2	6.8	U	3.4	1.7	5.8	1.754	--
127	HCC-1B	3212	3212I	intertidal	2	6.8	U	3.4	1.7	5.8	1.754	--
128	HCC-1C	2113	2113 S	subtidal	1	7	U	3.4	1.7	5.7	1.740	--
129	HCC-1C	5121	5121 S	subtidal	1	7	U	3.4	1.7	5.7	1.740	--
130	HCC-1B	1212	1212I	intertidal	2	6.6	U	3.3	1.7	5.6	1.725	--
131	HCC-1A	3103	3103S	subtidal	1	6.5	U	3.3	1.7	5.5	1.709	--
132	HCC-1A	5102	5102S	subtidal	1	6.5	U	3.3	1.7	5.5	1.709	--
133	HCC-1C	5120	5120 S	subtidal	1	7	U	3.3	1.7	5.5	1.709	--
134	HCC-1B	1206	1206I	intertidal	4	6.4	U	3.2	1.7	5.4	1.694	--
135	HCC-1B	2212	2212I	intertidal	3	6.4	U	3.2	1.7	5.4	1.694	--
136	HCC-1C	3107	3107 S	subtidal	1	6	U	3.2	1.7	5.4	1.694	--
137	HCC-1B	3214	3214I	intertidal	2	6.4	U	3.2	1.7	5.4	1.694	--
138	HCC-1A	5103	5103S	subtidal	1	6.4	U	3.2	1.7	5.4	1.694	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-12. Sampling data used to map injury footprints for 1,2,4-Trichlorobenzene (TCB) in Hylebos Waterway. Injury threshold =31 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
139	HCC-1A	4102	4102S	subtidal	1	6.3	U	3.2	1.7	5.4	1.678	--
140	HCC-1A	5101	5101S	subtidal	1	6.3	U	3.2	1.7	5.4	1.678	--
141	HCC-1A	5105	5105S	subtidal	1	6.3	U	3.2	1.7	5.4	1.678	--
142	HCC-1B	1207	1207I	intertidal	2	6.2	U	3.1	1.7	5.3	1.662	--
143	HCC-1B	1209	1209I	intertidal	3	6.2	U	3.1	1.7	5.3	1.662	--
144	HCC-1B	1211	1211I	intertidal	2	6.2	U	3.1	1.7	5.3	1.662	--
145	HCC-1B	1213	1213I	intertidal	4	6.2	U	3.1	1.7	5.3	1.662	--
146	HCC-1C	4119	4119 S	subtidal	1	6	U	3.1	1.7	5.3	1.662	--
147	HCC-1C	1119	1119 S	subtidal	1	6	U	3.0	1.7	5.1	1.629	--
148	HCC-1B	2205	2205I	intertidal	3	6.0	U	3.0	1.7	5.1	1.629	--
149	HCC-1A	4101	4101S	subtidal	1	6.0	U	3.0	1.7	5.1	1.629	--
150	HCC-1B	2209	2209I	intertidal	2	5.9	U	3.0	1.7	5.0	1.612	--
151	HCC-1B	2214	2214I	intertidal	2	5.9	U	3.0	1.7	5.0	1.612	--
152	HCC-1B	1203	1203I	intertidal	7	5.8	U	2.9	1.7	4.9	1.595	--
153	HCC-1B	3211	3211I	intertidal	4	5.8	U	2.9	1.7	4.9	1.595	--
154	HCC-1B	4203	4203I	intertidal	2	5.8	U	2.9	1.7	4.9	1.595	--
155	HCC-1C	5215	5215 I	intertidal	2	6	U	2.9	1.7	4.9	1.595	--
156	HCC-1B	5214	5214I	intertidal	6	5.6	U	2.8	1.7	4.8	1.560	--
157	HCC-1C	4116	4116 S	subtidal	1	6	U	2.8	1.7	4.7	1.542	--
158	HCC-1B	4201	4201I	intertidal	4	5.5	U	2.8	1.7	4.7	1.542	--
159	HCC-1B	4206	4206I	intertidal	3	5.5	U	2.8	1.7	4.7	1.542	--
160	HCC-1B	4210	4210I	intertidal	3	5.5	U	2.8	1.7	4.7	1.542	--
161	HCC-1C	1121	1121 S	subtidal	1	5	U	2.7	1.7	4.6	1.524	--
162	HCC-1B	1210	1210I	intertidal	2	5.4	U	2.7	1.7	4.6	1.524	--
163	HCC-1B	2208	2208I	intertidal	2	5.4	U	2.7	1.7	4.6	1.524	--
164	HCC-1B	4205	4205I	intertidal	3	5.4	U	2.7	1.7	4.6	1.524	--
165	HCC-1C	3108		subtidal	1	5	UM	2.7	1.7	4.5	1.508	--
166	HCC-1B	5201	5201I	intertidal	2	5.3	U	2.7	1.7	4.5	1.505	--
167	HCC-1C	1118	1118 S	subtidal	1	5	U	2.6	1.7	4.4	1.486	--
168	HCC-1B	2207	2207I	intertidal	2	5.2	U	2.6	1.7	4.4	1.486	--
169	HCC-1B	3203	3203I	intertidal	2	5.2	U	2.6	1.7	4.4	1.486	--
170	HCC-1B	3220	3220I	intertidal	3	5.2	U	2.6	1.7	4.4	1.486	--
171	HCC-1B	3221	3221I	intertidal	3	5.2	U	2.6	1.7	4.4	1.486	--
172	HCC-1A	4108	4108S	subtidal	1	5.2	U	2.6	1.7	4.4	1.486	--
173	HCC-1B	5202	5202I	intertidal	6	5.2	U	2.6	1.7	4.4	1.486	--
174	HCC-1B	4202	4202I	intertidal	3	5.1	U	2.6	1.7	4.3	1.467	--
175	HCC-1B	4207	4207I	intertidal	3	5.1	U	2.6	1.7	4.3	1.467	--
176	HCC-1B	5212	5212I	intertidal	6	5.1	U	2.6	1.7	4.3	1.467	--
177	HCC-1B	1214	1214I	intertidal	3	5.0	U	2.5	1.7	4.3	1.447	--
178	HCC-1B	1217	1217I	intertidal	5	5.0	U	2.5	1.7	4.3	1.447	--
179	HCC-1B	5213	5213I	intertidal	4	5.0	U	2.5	1.7	4.3	1.447	--
180	HCC-1B	2204	2204I	intertidal	4	4.9	U	2.5	1.7	4.2	1.427	--
181	HCC-1B	4204	4204I	intertidal	4	4.9	U	2.5	1.7	4.2	1.427	--
182	HCC-1C	1124	1124 S	subtidal	1	5	U	2.3	1.7	3.9	1.364	--
183	HCC-1C	1133	1133 S	subtidal	1	4	U	2.1	1.7	3.6	1.273	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-13. Sampling data used to map injury footprints for 1,3-Drichlorobenzene (mDCB) in Hylebos Waterway. Injury threshold =21 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	5203	5203I	intertidal	2	950		950	1.7	1,615.0	7.387	5%
2	HCC-1A	1108	1108S	subtidal	1	100	U	50.0	1.7	85.0	4.443	5%
3	HCC-1A	1104	1104S	subtidal	1	97.0	U	48.5	1.7	82.5	4.412	5%
4	HCC-1A	2106	2106S	subtidal	1	75.0	U	37.5	1.7	63.8	4.155	5%
5	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.7	51.0	3.932	5%
6	HCC-1B	1202	1202I	intertidal	4	54	U	27.0	1.7	45.9	3.826	5%
7	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.7	40.0	3.688	5%
8	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.7	39.1	3.666	5%
9	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.7	34.0	3.526	5%
10	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.7	32.3	3.475	5%
11	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.7	31.5	3.448	5%
12	HCC-1A	1112	1112S	subtidal	1	37	U	18.5	1.7	31.5	3.448	5%
13	HCC-1A	1103	1103S	subtidal	1	36	U	18.0	1.7	30.6	3.421	5%
14	HCC-1A	1113	1113S	subtidal	1	36	U	18.0	1.7	30.6	3.421	5%
15	HCC-1A	1101		subtidal	1	35.00	UM(4)	17.5	1.7	29.8	3.393	5%
16	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.7	28.9	3.364	5%
17	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.7	27.2	3.303	5%
18	HCC-1B	2214	2214I	intertidal	2	32	U	16.0	1.7	27.2	3.303	5%
19	HCC-1B	3215	3215I	intertidal	2	32	U	16.0	1.7	27.2	3.303	5%
20	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.7	26.4	3.271	5%
21	HCC-1B	2211	2211I	intertidal	2	31.0	U	15.5	1.7	26.4	3.271	5%
22	HCC-1B	2215	2215I	intertidal	7	31	U	15.5	1.7	26.4	3.271	5%
23	HCC-1B	3216	3216I	intertidal	3	31	U	15.5	1.7	26.4	3.271	5%
24	HCC-1B	3219	3219I	intertidal	3	31	U	15.5	1.7	26.4	3.271	5%
25	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.7	25.5	3.239	5%
26	HCC-1B	2212	2212I	intertidal	3	30	U	15.0	1.7	25.5	3.239	5%
27	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.7	24.7	3.205	5%
28	HCC-1B	2208	2208I	intertidal	2	28	U	14.0	1.7	23.8	3.170	5%
29	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.7	23.8	3.170	5%
30	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.7	23.0	3.133	5%
31	HCC-1B	5202	5202I	intertidal	6	27.0	U	13.5	1.7	23.0	3.133	5%
32	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.7	23.0	3.133	5%
33	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.7	23.0	3.133	5%
34	HCC-1B	5210		intertidal	2	26	U	13.0	1.7	22.1	3.096	5%
35	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.7	22.1	3.096	5%
36	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.7	21.3	3.056	5%
37	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	5%
38	HCC-1A	5111	5111S	subtidal	1	12	J	12	1.7	20.4	3.016	--
39	HCC-1A	2104	2104S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
40	HCC-1A	2111	2111S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
41	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
42	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
43	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
44	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
45	HCC-1B	4208	4208I	intertidal	3	19.0	UM(4)	9.5	1.7	16.2	2.782	--
46	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
47	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-13. Sampling data used to map injury footprints for 1,3-Drichlorobenzene (mDCB) in Hylebos Waterway. Injury threshold =21 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
48	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
49	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
50	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
51	HCC-1A	1102	1102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
52	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
53	HCC-1A	2101	2101S	subtidal	1	18.0	U	9.0	1.7	15.3	2.728	--
54	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
55	HCC-1A	2107	2107S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
56	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
57	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
58	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
59	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
60	HCC-1A	3105	3105S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
61	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
62	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
63	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
64	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
65	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
66	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
67	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
68	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
69	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.7	14.5	2.671	--
70	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
71	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
72	HCC-1A	4107	4107S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
73	HCC-1A	4109		subtidal	1	17	UM(4)	8.5	1.7	14.5	2.671	--
74	HCC-1A	4110	4110S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
75	HCC-1A	4111	4111S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
76	HCC-1A	5103	5103S	subtidal	1	17.0	U	8.5	1.7	14.5	2.671	--
77	HCC-1A	5104	5104S	subtidal	1	17.0	U	8.5	1.7	14.5	2.671	--
78	HCC-1A	5107		subtidal	1	17	UM	8.5	1.7	14.5	2.671	--
79	HCC-1A	5109	5109S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
80	Co-Trustee	HY-10	00326	subtidal	1	14.0		14.0	1.0	14.0	2.639	--
81	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
82	HCC-1A	5101	5101S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
83	HCC-1A	5102	5102S	subtidal	1	16.0	U	8.0	1.7	13.6	2.610	--
84	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
85	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
86	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	--
87	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
88	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
89	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
90	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
91	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
92	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
93	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.7	11.9	2.477	--
94	HCC-1B	1212	1212I	intertidal	2	14	U	7.0	1.7	11.9	2.477	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-13. Sampling data used to map injury footprints for 1,3-Drichlorobenzene (mDCB) in Hylebos Waterway. Injury threshold =21 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
95	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.7	11.9	2.477	--
96	HCC-1A	2108	2108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	--
97	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
98	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
99	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	--
100	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
101	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
102	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
103	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
104	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
105	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
106	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
107	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
108	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
109	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
110	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
111	Co-Trustee	HY-08	00313	subtidal	1	11.0		11.0	1.0	11.0	2.398	--
112	HCC-1B	3201		intertidal	4	12	UM(4)	6.0	1.7	10.2	2.322	--
113	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
114	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
115	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
116	Co-Trustee	HY-06		subtidal	1	9.9	M(3)	9.9	1.0	9.9	2.296	--
117	Co-Trustee	HY-09	00348	subtidal	1	9.8		9.8	1.0	9.8	2.282	--
118	Co-Trustee	HY-19		subtidal	1	6.9	M(3)	6.9	1.0	6.9	1.932	--
119	Co-Trustee	HY-21	00136	subtidal	1	6.7		6.7	1.0	6.7	1.902	--
120	Co-Trustee	HY-11	00295	subtidal	1	6.3		6.3	1.0	6.3	1.841	--
121	Co-Trustee	HY-12	00275	subtidal	1	5.3		5.3	1.0	5.3	1.668	--
122	Co-Trustee	HY-18	00082	subtidal	1	5.3		5.3	1.0	5.3	1.668	--
123	Co-Trustee	HY-07	00352	subtidal	1	5.2		5.2	1.0	5.2	1.649	--
124	HCC-1B	5211	5211I	intertidal	2	5.00	U	2.5	1.7	4.3	1.447	--
125	Co-Trustee	HY-22	00156	subtidal	1	4.1		4.1	1.0	4.1	1.411	--
126	HCC-1B	4204	4204I	intertidal	4	2.4		2.4	1.7	4.1	1.406	--
127	Co-Trustee	HY-20	00127	subtidal	1	4.0		4.0	1.0	4.0	1.386	--
128	Co-Trustee	HY-05	00380	subtidal	1	3.9		3.9	1.0	3.9	1.361	--
129	Co-Trustee	HY-16	00044	subtidal	1	3.9	M(2)	3.9	1.0	3.9	1.348	--
130	Co-Trustee	HY-02	00443	subtidal	1	3.1		3.1	1.0	3.1	1.131	--
131	Co-Trustee	HY-04	00420	subtidal	1	3.0		3.0	1.0	3.0	1.099	--
132	Co-Trustee	HY-15	00031	subtidal	1	3.0		3.0	1.0	3.0	1.099	--
133	Co-Trustee	HY-24	00191	subtidal	1	3.0		3.0	1.0	3.0	1.099	--
134	Co-Trustee	HY-25	00204	subtidal	1	2.9		2.9	1.0	2.9	1.065	--
135	Co-Trustee	HY-23	00173	subtidal	1	2.8		2.8	1.0	2.8	1.030	--
136	HCC-1B	4203	4203I	intertidal	2	1.5		1.5	1.7	2.6	0.936	--
137	Co-Trustee	HY-14	00020	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
138	Co-Trustee	HY-03	00426	subtidal	1	2.3	M(3)	2.3	1.0	2.3	0.833	--
139	Co-Trustee	HY-17	00062	subtidal	1	2.3		2.3	1.0	2.3	0.833	--
140	Co-Trustee	HY-26	00217	subtidal	1	2.3		2.3	1.0	2.3	0.833	--
141	HCC-1C	1121	1121 S	subtidal	1	2.7	U	1.4	1.7	2.3	0.831	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-13. Sampling data used to map injury footprints for 1,3-Drichlorobenzene (mDCB) in Hylebos Waterway. Injury threshold =21 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
142	HCC-1C	1118	1118 S	subtidal	1	2.6	U	1.3	1.7	2.2	0.793	--
143	HCC-1B	4205	4205I	intertidal	3	1.2	J	1.2	1.7	2.0	0.713	--
144	HCC-1B	4201	4201I	intertidal	4	1.1		1.1	1.7	1.9	0.626	--
145	HCC-1B	4209	4209I	intertidal	2	2.2	U	1.1	1.7	1.9	0.626	--
146	HCC-1C	1133	1133 S	subtidal	1	2.1	U	1.1	1.7	1.8	0.579	--
147	HCC-1B	1201		intertidal	2	2	UM(4)	1.0	1.7	1.7	0.531	--
148	HCC-1C	3109	3109 S	subtidal	1	2	U	1.0	1.7	1.7	0.531	--
149	HCC-1B	3213	3213I	intertidal	2	2.0	U	1.0	1.7	1.7	0.531	--
150	Co-Trustee	HY-28	00256	subtidal	1	1.7	M(3)	1.7	1.0	1.7	0.511	--
151	HCC-1C	2112	2112 S	subtidal	1	1.9	U	1.0	1.7	1.6	0.479	--
152	Co-Trustee	HY-13	00012	subtidal	1	1.6		1.6	1.0	1.6	0.470	--
153	Co-Trustee	HY-27	00235	subtidal	1	1.6		1.6	1.0	1.6	0.470	--
154	HCC-1C	1117	1117 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
155	HCC-1C	2114	2114 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
156	HCC-1C	3110	3110 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
157	HCC-1C	4120	4120 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
158	HCC-1C	1123	1123 S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--
159	HCC-1C	1125	1125 S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--
160	HCC-1C	4117	4117 S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--
161	HCC-1C	2115	2115 S	subtidal	1	1.6	U	0.8	1.7	1.4	0.307	--
162	Co-Trustee	HY-01	00456	subtidal	1	1.2		1.2	1.0	1.2	0.182	--
163	HCC-1C	1120	1120 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
164	HCC-1C	1122	1122 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
165	HCC-1C	1126	1126 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
166	HCC-1B	3212	3212I	intertidal	2	1.4	U	0.7	1.7	1.2	0.174	--
167	HCC-1C	4118	4118 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
168	HCC-1C	2113	2113 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
169	HCC-1C	3107	3107 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
170	HCC-1B	3214	3214I	intertidal	2	1.3	U	0.7	1.7	1.1	0.100	--
171	HCC-1C	5120	5120 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
172	HCC-1C	5121	5121 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
173	HCC-1C	1119	1119 S	subtidal	1	1.2	U	0.6	1.7	1.0	0.020	--
174	HCC-1C	1124	1124 S	subtidal	1	1.2	U	0.6	1.7	1.0	0.020	--
175	HCC-1C	4119	4119 S	subtidal	1	1.2	U	0.6	1.7	1.0	0.020	--
176	HCC-1C	5215	5215 I	intertidal	2	1.2	U	0.6	1.7	1.0	0.020	--
177	HCC-1C	3108		subtidal	1	1.1	UM	0.6	1.7	0.9	0.000**	--
178	HCC-1C	4116	4116 S	subtidal	1	1.1	U	0.6	1.7	0.9	0.000**	--
179	HCC-1B	4210	4210I	intertidal	3	1.1	U	0.6	1.7	0.9	0.000**	--
180	HCC-1B	5214	5214I	intertidal	6	1.1	U	0.6	1.7	0.9	0.000**	--
181	HCC-1B	3203	3203I	intertidal	2	1.0	U	0.5	1.7	0.9	0.000**	--
182	HCC-1B	3204	3204I	intertidal	3	1.0	U	0.5	1.7	0.9	0.000**	--
183	HCC-1B	4202	4202I	intertidal	3	1.0	U	0.5	1.7	0.9	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-14. Sampling data used to map injury footprints for Hexachlorobenzene (HCB) in Hylebos Waterway. Injury threshold =22 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	5208	5208I	intertidal	2	1000		1000	1.7	1,700.0	7.438	20%
2	HCC-1B	5210		intertidal	2	1000		1000	1.7	1,700.0	7.438	20%
3	HCC-1B	5206	5206I	intertidal	2	730		730	1.7	1,241.0	7.124	20%
4	HCC-1B	5209	5209I	intertidal	5	620		620	1.7	1,054.0	6.960	20%
5	HCC-1B	5207	5207I	intertidal	2	560		560	1.7	952.0	6.859	20%
6	HCC-1B	5211	5211I	intertidal	2	420		420	1.7	714.0	6.571	20%
7	HCC-1A	5108	5108S	subtidal	1	260		260	1.7	442.0	6.091	20%
8	HCC-1A	5109	5109S	subtidal	1	140		140	1.7	238.0	5.472	20%
9	HCC-1A	5116	5116S	subtidal	1	120		120	1.7	204.0	5.318	15%
10	Co-Trustee	HY-09	00348	subtidal	1	120		120.0	1.0	120.0	4.787	10%
11	HCC-1B	5205	5205I	intertidal	2	64		64	1.7	108.8	4.690	10%
12	HCC-1A	5111	5111S	subtidal	1	47		47	1.7	79.9	4.381	10%
13	Co-Trustee	HY-06		subtidal	1	68.7	M(3)	68.7	1.0	68.7	4.229	5%
14	HCC-1B	5203	5203I	intertidal	2	39	J	39	1.7	66.3	4.194	5%
15	Co-Trustee	HY-07	00352	subtidal	1	64		64.0	1.0	64.0	4.159	5%
16	Co-Trustee	HY-10	00326	subtidal	1	64		64.0	1.0	64.0	4.159	5%
17	HCC-1A	5103	5103S	subtidal	1	35		35	1.7	59.5	4.086	5%
18	Co-Trustee	HY-08	00313	subtidal	1	54		54.0	1.0	54.0	3.989	5%
19	HCC-1A	5115	5115S	subtidal	1	31		31	1.7	52.7	3.965	5%
20	HCC-1A	5106	5106S	subtidal	1	54		27.0	1.7	45.9	3.826	5%
21	Co-Trustee	HY-12	00275	subtidal	1	45		45.0	1.0	45.0	3.807	5%
22	HCC-1A	5112	5112S	subtidal	1	26	J	26	1.7	44.2	3.789	5%
23	Co-Trustee	HY-05	00380	subtidal	1	41		41.0	1.0	41.0	3.714	5%
24	Co-Trustee	HY-11	00295	subtidal	1	40		40.0	1.0	40.0	3.689	5%
25	HCC-1C	2114	2114 S	subtidal	1	23		23.0	1.7	39.1	3.666	5%
26	HCC-1A	5110	5110S	subtidal	1	22	J	22	1.7	37.4	3.622	5%
27	HCC-1A	5107		subtidal	1	21.5	JM(4)	21.5	1.7	36.6	3.599	5%
28	HCC-1A	5105	5105S	subtidal	1	19	J	19	1.7	32.3	3.475	5%
29	HCC-1A	5113	5113S	subtidal	1	18	J	18	1.7	30.6	3.421	5%
30	Co-Trustee	HY-21	00136	subtidal	1	29		29.0	1.0	29.0	3.367	5%
31	Co-Trustee	HY-15	00031	subtidal	1	28		28.0	1.0	28.0	3.332	5%
32	HCC-1A	2107	2107S	subtidal	1	16	J	16	1.7	27.2	3.303	5%
33	HCC-1A	3101	3101S	subtidal	1	16	J	16	1.7	27.2	3.303	5%
34	HCC-1A	5104	5104S	subtidal	1	16	J	16	1.7	27.2	3.303	5%
35	HCC-1B	5212	5212I	intertidal	6	16	J	16	1.7	27.2	3.303	5%
36	HCC-1A	2104	2104S	subtidal	1	15	J	15	1.7	25.5	3.239	5%
37	HCC-1A	4101	4101S	subtidal	1	15	J	15	1.7	25.5	3.239	5%
38	Co-Trustee	HY-03	00426	subtidal	1	25.3	M(3)	25.3	1.0	25.3	3.232	5%
39	HCC-1B	2205	2205I	intertidal	3	14		14	1.7	23.8	3.170	5%
40	Co-Trustee	HY-19		subtidal	1	23.7	M(3)	23.7	1.0	23.7	3.164	5%
41	Co-Trustee	HY-16	00044	subtidal	1	23.0	M(2)	23.0	1.0	23.0	3.135	5%
42	Co-Trustee	HY-20	00127	subtidal	1	23		23.0	1.0	23.0	3.135	5%
43	HCC-1A	2102	2102S	subtidal	1	13	J	13	1.7	22.1	3.096	5%
44	Co-Trustee	HY-04	00420	subtidal	1	22		22.0	1.0	22.0	3.091	5%
45	Co-Trustee	HY-18	00082	subtidal	1	21		21.0	1.0	21.0	3.045	--
46	HCC-1A	5101	5101S	subtidal	1	12	J	12	1.7	20.4	3.016	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-14. Sampling data used to map injury footprints for Hexachlorobenzene (HCB) in Hylebos Waterway. Injury threshold =22 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	Co-Trustee	HY-02	00443	subtidal	1	20		20.0	1.0	20.0	2.996	--
48	HCC-1C	1121	1121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
49	HCC-1C	1122	1122 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
50	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
51	HCC-1C	1124	1124 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
52	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
53	HCC-1C	1133	1133 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
54	HCC-1C	2113	2113 S	subtidal	1	10	J	10.0	1.7	17.0	2.833	--
55	HCC-1C	2115	2115 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
56	HCC-1B	2204	2204I	intertidal	4	10	J	10	1.7	17.0	2.833	--
57	HCC-1C	3107	3107 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
58	HCC-1C	3108		subtidal	1	20	UM	10.0	1.7	17.0	2.833	--
59	HCC-1C	3110	3110 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
60	HCC-1C	4117	4117 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
61	HCC-1C	4118	4118 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
62	HCC-1C	4119	4119 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
63	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
64	HCC-1B	4205	4205I	intertidal	3	9.6		9.6	1.7	16.3	2.792	--
65	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
66	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
67	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
68	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
69	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
70	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
71	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
72	Co-Trustee	HY-14	00020	subtidal	1	16		16.0	1.0	16.0	2.773	--
73	HCC-1A	2108	2108S	subtidal	1	9.0	N	9.0	1.7	15.3	2.728	--
74	HCC-1A	3106	3106S	subtidal	1	9.0	J	9.0	1.7	15.3	2.728	--
75	HCC-1A	4115	4115S	subtidal	1	9.0	J	9.0	1.7	15.3	2.728	--
76	Co-Trustee	HY-25	00204	subtidal	1	13		13.0	1.0	13.0	2.565	--
77	HCC-1B	2211	2211I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
78	HCC-1B	5202	5202I	intertidal	6	7.1		7.1	1.7	12.1	2.491	--
79	Co-Trustee	HY-13	00012	subtidal	1	12		12.0	1.0	12.0	2.485	--
80	Co-Trustee	HY-22	00156	subtidal	1	12		12.0	1.0	12.0	2.485	--
81	Co-Trustee	HY-24	00191	subtidal	1	12		12.0	1.0	12.0	2.485	--
82	Co-Trustee	HY-26	00217	subtidal	1	12		12.0	1.0	12.0	2.485	--
83	HCC-1A	4109		subtidal	1	7.0	JM(2)	7.0	1.7	11.9	2.477	--
84	HCC-1B	2206	2206I	intertidal	6	6.9		6.9	1.7	11.7	2.462	--
85	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
86	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
87	Co-Trustee	HY-01	00456	subtidal	1	11		11.0	1.0	11.0	2.398	--
88	Co-Trustee	HY-23	00173	subtidal	1	11		11.0	1.0	11.0	2.398	--
89	Co-Trustee	HY-17	00062	subtidal	1	9.9		9.9	1.0	9.9	2.293	--
90	Co-Trustee	HY-28	00256	subtidal	1	8.8	M(3)	8.8	1.0	8.8	2.175	--
91	HCC-1C	1117	1117 S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
92	HCC-1C	1125	1125 S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
93	HCC-1A	2103	2103S	subtidal	1	5.0	J	5.0	1.7	8.5	2.140	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-14. Sampling data used to map injury footprints for Hexachlorobenzene (HCB) in Hylebos Waterway. Injury threshold =22 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
94	HCC-1A	2109	2109S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
95	HCC-1C	2112	2112 S	subtidal	1	5.0	J	5.0	1.7	8.5	2.140	--
96	HCC-1A	5102	5102S	subtidal	1	5.0	J	5.0	1.7	8.5	2.140	--
97	HCC-1A	5114	5114S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
98	Co-Trustee	HY-27	00235	subtidal	1	8.1		8.1	1.0	8.1	2.092	--
99	HCC-1A	4105	4105S	subtidal	1	4.1		4.1	1.7	7.0	1.942	--
100	HCC-1A	2105	2105S	subtidal	1	8.0	U	4.0	1.7	6.8	1.917	--
101	HCC-1A	3105	3105S	subtidal	1	7.0	U	3.5	1.7	6.0	1.783	--
102	HCC-1A	2101	2101S	subtidal	1	3.0	J	3.0	1.7	5.1	1.629	--
103	HCC-1A	2111	2111S	subtidal	1	6.0	U	3.0	1.7	5.1	1.629	--
104	HCC-1A	4103	4103S	subtidal	1	6.0	U	3.0	1.7	5.1	1.629	--
105	HCC-1A	4107	4107S	subtidal	1	6.0	U	3.0	1.7	5.1	1.629	--
106	HCC-1B	2214	2214I	intertidal	2	2.7		2.7	1.7	4.6	1.524	--
107	HCC-1B	4204	4204I	intertidal	4	2.6		2.6	1.7	4.4	1.486	--
108	HCC-1A	2106	2106S	subtidal	1	5.0	U	2.5	1.7	4.3	1.447	--
109	HCC-1A	2110	2110S	subtidal	1	5.0	U	2.5	1.7	4.3	1.447	--
110	HCC-1A	3104	3104S	subtidal	1	5.0	U	2.5	1.7	4.3	1.447	--
111	HCC-1A	4104	4104S	subtidal	1	5.0	U	2.5	1.7	4.3	1.447	--
112	HCC-1A	4106	4106S	subtidal	1	5.0	U	2.5	1.7	4.3	1.447	--
113	HCC-1B	1212	1212I	intertidal	2	4.4	U	2.2	1.7	3.7	1.319	--
114	HCC-1A	1101		subtidal	1	4.25	UM(4)	2.1	1.7	3.6	1.284	--
115	HCC-1A	1102	1102S	subtidal	1	4.0	U	2.0	1.7	3.4	1.224	--
116	HCC-1A	1104	1104S	subtidal	1	4.0	U	2.0	1.7	3.4	1.224	--
117	HCC-1A	1111	1111S	subtidal	1	2.0	J	2.0	1.7	3.4	1.224	--
118	HCC-1A	1112	1112S	subtidal	1	4.0	U	2.0	1.7	3.4	1.224	--
119	HCC-1B	1201		intertidal	2	3.6	UM(4)	1.8	1.7	3.1	1.130	--
120	HCC-1B	4209	4209I	intertidal	2	3.4	U	1.7	1.7	2.9	1.061	--
121	HCC-1C	5215	5215 I	intertidal	2	3.2	U	1.6	1.7	2.7	1.001	--
122	HCC-1A	1103	1103S	subtidal	1	3.0	U	1.5	1.7	2.6	0.936	--
123	HCC-1A	1105	1105S	subtidal	1	3.0	U	1.5	1.7	2.6	0.936	--
124	HCC-1A	4102	4102S	subtidal	1	3.0	U	1.5	1.7	2.6	0.936	--
125	HCC-1B	4208	4208I	intertidal	3	3.0	UM(4)	1.5	1.7	2.6	0.936	--
126	HCC-1B	1213	1213I	intertidal	4	2.8	U	1.4	1.7	2.4	0.867	--
127	HCC-1B	2202	2202I	intertidal	2	1.4		1.4	1.7	2.4	0.867	--
128	HCC-1A	4108	4108S	subtidal	1	2.8		1.4	1.7	2.4	0.867	--
129	HCC-1B	1210	1210I	intertidal	2	2.7	U	1.4	1.7	2.3	0.831	--
130	HCC-1B	3203	3203I	intertidal	2	2.7	U	1.4	1.7	2.3	0.831	--
131	HCC-1B	5213	5213I	intertidal	4	1.3	J	1.3	1.7	2.2	0.793	--
132	HCC-1B	5214	5214I	intertidal	6	2.6	U	1.3	1.7	2.2	0.793	--
133	HCC-1B	5201	5201I	intertidal	2	1.1		1.1	1.7	1.9	0.626	--
134	HCC-1A	1106	1106S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
135	HCC-1A	1107	1107S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
136	HCC-1A	1108	1108S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
137	HCC-1A	1110	1110S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
138	HCC-1B	1214	1214I	intertidal	3	2.0	U	1.0	1.7	1.7	0.531	--
139	HCC-1A	3102	3102S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
140	HCC-1B	2212	2212I	intertidal	3	1.9	U	1.0	1.7	1.6	0.479	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-14. Sampling data used to map injury footprints for Hexachlorobenzene (HCB) in Hylebos Waterway. Injury threshold =22 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
141	HCC-1B	2210	2210I	intertidal	5	1.8	U	0.9	1.7	1.5	0.425	--
142	HCC-1B	4210	4210I	intertidal	3	1.8	U	0.9	1.7	1.5	0.425	--
143	HCC-1B	4201	4201I	intertidal	4	1.6	U	0.8	1.7	1.4	0.307	--
144	HCC-1B	1211	1211I	intertidal	2	1.5	U	0.8	1.7	1.3	0.243	--
145	HCC-1B	1202	1202I	intertidal	4	1.3	U	0.7	1.7	1.1	0.100	--
146	HCC-1B	2215	2215I	intertidal	7	1.3	U	0.7	1.7	1.1	0.100	--
147	HCC-1B	3205	3205I	intertidal	2	1.3	U	0.7	1.7	1.1	0.100	--
148	HCC-1B	3214	3214I	intertidal	2	1.3	U	0.7	1.7	1.1	0.100	--
149	HCC-1B	3215	3215I	intertidal	2	1.3	U	0.7	1.7	1.1	0.100	--
150	HCC-1B	3216	3216I	intertidal	3	1.3	U	0.7	1.7	1.1	0.100	--
151	HCC-1B	3219	3219I	intertidal	3	1.3	U	0.7	1.7	1.1	0.100	--
152	HCC-1B	1208	1208I	intertidal	2	1.2	U	0.6	1.7	1.0	0.020	--
153	HCC-1B	3212	3212I	intertidal	2	1.1	U	0.6	1.7	0.9	0.000**	--
154	HCC-1A	1109	1109S	subtidal	1	1.0	U	0.5	1.7	0.9	0.000**	--
155	HCC-1A	1113	1113S	subtidal	1	1.0	U	0.5	1.7	0.9	0.000**	--
156	HCC-1A	3103	3103S	subtidal	1	1.0	U	0.5	1.7	0.9	0.000**	--
157	HCC-1B	3204	3204I	intertidal	3	1.0	U	0.5	1.7	0.9	0.000**	--
158	HCC-1B	3213	3213I	intertidal	2	0.9	U	0.5	1.7	0.8	0.000**	--
159	HCC-1B	3210	3210I	intertidal	2	0.9	U	0.4	1.7	0.7	0.000**	--
160	HCC-1B	3209	3209I	intertidal	3	0.9	U	0.4	1.7	0.7	0.000**	--
161	HCC-1B	1207	1207I	intertidal	2	0.8	U	0.4	1.7	0.7	0.000**	--
162	HCC-1B	1203	1203I	intertidal	7	0.8	U	0.4	1.7	0.7	0.000**	--
163	HCC-1B	1209	1209I	intertidal	3	0.8	U	0.4	1.7	0.6	0.000**	--
164	HCC-1B	3217	3217I	intertidal	2	0.8	U	0.4	1.7	0.6	0.000**	--
165	HCC-1B	1206	1206I	intertidal	4	0.7	U	0.4	1.7	0.6	0.000**	--
166	HCC-1B	3211	3211I	intertidal	4	0.7	U	0.4	1.7	0.6	0.000**	--
167	HCC-1B	1216	1216I	intertidal	3	0.7	U	0.4	1.7	0.6	0.000**	--
168	HCC-1B	2208	2208I	intertidal	2	0.7	U	0.4	1.7	0.6	0.000**	--
169	HCC-1B	2209	2209I	intertidal	2	0.7	U	0.4	1.7	0.6	0.000**	--
170	HCC-1B	3201		intertidal	4	0.7	UM(4)	0.3	1.7	0.6	0.000**	--
171	HCC-1B	2213	2213I	intertidal	4	0.7	U	0.3	1.7	0.6	0.000**	--
172	HCC-1B	2207	2207I	intertidal	2	0.7	U	0.3	1.7	0.6	0.000**	--
173	HCC-1B	3207	3207I	intertidal	2	0.7	U	0.3	1.7	0.6	0.000**	--
174	HCC-1B	4203	4203I	intertidal	2	0.6	U	0.3	1.7	0.5	0.000**	--
175	HCC-1B	1204	1204I	intertidal	4	0.6	U	0.3	1.7	0.5	0.000**	--
176	HCC-1B	1215	1215I	intertidal	4	0.6	U	0.3	1.7	0.5	0.000**	--
177	HCC-1B	1217	1217I	intertidal	5	0.6	U	0.3	1.7	0.5	0.000**	--
178	HCC-1B	3206	3206I	intertidal	3	0.6	U	0.3	1.7	0.5	0.000**	--
179	HCC-1A	4110	4110S	subtidal	1	0.6	U	0.3	1.7	0.5	0.000**	--
180	HCC-1B	3221	3221I	intertidal	3	0.6	U	0.3	1.7	0.5	0.000**	--
181	HCC-1A	4111	4111S	subtidal	1	0.6	U	0.3	1.7	0.5	0.000**	--
182	HCC-1B	4207	4207I	intertidal	3	0.6	U	0.3	1.7	0.5	0.000**	--
183	HCC-1B	4202	4202I	intertidal	3	0.5	U	0.3	1.7	0.4	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-15. Sampling data used to map injury footprints for 2-Methyl Phenol (MP2) in Hylebos Waterway. Injury threshold =53 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.0	65.0	4.174	10%
2	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.0	48.5	3.882	--
3	HCC-1B	3214	3214I	intertidal	2	96	U	48.0	1.0	48.0	3.871	--
4	HCC-1B	1201		intertidal	2	61.5	UM(4)	30.8	1.0	30.8	3.426	--
5	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.0	30.0	3.401	--
6	HCC-1B	5203	5203I	intertidal	2	57	U	28.5	1.0	28.5	3.350	--
7	HCC-1B	1202	1202I	intertidal	4	54	U	27.0	1.0	27.0	3.296	--
8	HCC-1C	2114	2114 S	subtidal	1	26		26.0	1.0	26.0	3.258	--
9	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.0	26.0	3.258	--
10	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.0	23.5	3.157	--
11	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.0	23.0	3.135	--
12	Co-Trustee	HY-18	00082	subtidal	1	23		23.0	1.0	23.0	3.135	--
13	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.0	20.0	2.996	--
14	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.0	19.0	2.944	--
15	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.0	18.5	2.918	--
16	HCC-1A	1112	1112S	subtidal	1	37	U	18.5	1.0	18.5	2.918	--
17	HCC-1A	1103	1103S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
18	HCC-1A	1113	1113S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
19	Co-Trustee	HY-14	00020	subtidal	1	18		18.0	1.0	18.0	2.890	--
20	HCC-1A	1101		subtidal	1	35.5	UM(4)	17.8	1.0	17.8	2.876	--
21	HCC-1B	3212	3212I	intertidal	2	34	U	17.0	1.0	17.0	2.833	--
22	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.0	17.0	2.833	--
23	HCC-1B	4205	4205I	intertidal	3	34	U	17.0	1.0	17.0	2.833	--
24	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.0	16.5	2.803	--
25	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.0	16.0	2.773	--
26	HCC-1B	2214	2214I	intertidal	2	32	U	16.0	1.0	16.0	2.773	--
27	HCC-1B	3215	3215I	intertidal	2	32	U	16.0	1.0	16.0	2.773	--
28	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.0	15.5	2.741	--
29	HCC-1B	2211	2211I	intertidal	2	31	U	15.5	1.0	15.5	2.741	--
30	HCC-1B	2215	2215I	intertidal	7	31	U	15.5	1.0	15.5	2.741	--
31	HCC-1B	3219	3219I	intertidal	3	31	U	15.5	1.0	15.5	2.741	--
32	HCC-1A	1108	1108S	subtidal	1	30	U	15.0	1.0	15.0	2.708	--
33	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.0	15.0	2.708	--
34	HCC-1B	2212	2212I	intertidal	3	30	U	15.0	1.0	15.0	2.708	--
35	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.0	14.5	2.674	--
36	HCC-1B	2208	2208I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
37	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
38	Co-Trustee	HY-24	00191	subtidal	1	14		14.0	1.0	14.0	2.639	--
39	HCC-1A	4109		subtidal	1	28	UM(4)	13.9	1.0	13.9	2.630	--
40	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.0	13.5	2.603	--
41	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
42	HCC-1B	5202	5202I	intertidal	6	27	U	13.5	1.0	13.5	2.603	--
43	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
44	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.0	13.5	2.603	--
45	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.0	13.0	2.565	--
46	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.0	13.0	2.565	--
47	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.0	12.5	2.526	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-15. Sampling data used to map injury footprints for 2-Methyl Phenol (MP2) in Hylebos Waterway. Injury threshold =53 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
48	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
49	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
50	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.0	12.0	2.485	--
51	Co-Trustee	HY-10	00326	subtidal	1	12		12.0	1.0	12.0	2.485	--
52	HCC-1C	1121	1121 S	subtidal	1	11	J	11.0	1.0	11.0	2.398	--
53	HCC-1B	5210		intertidal	2	22	U	11.0	1.0	11.0	2.398	--
54	Co-Trustee	HY-09	00348	subtidal	1	11		11.0	1.0	11.0	2.398	--
55	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
56	HCC-1C	1124	1124 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
57	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
58	HCC-1C	1133	1133 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
59	HCC-1A	2104	2104S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
60	HCC-1A	2111	2111S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
61	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
62	HCC-1C	2115	2115 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
63	HCC-1C	3107	3107 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
64	HCC-1C	3108		subtidal	1	20	UM	10.0	1.0	10.0	2.303	--
65	HCC-1C	3110	3110 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
66	HCC-1C	4117	4117 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
67	HCC-1C	4118	4118 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
68	HCC-1C	4119	4119 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
69	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
70	Co-Trustee	HY-23	00173	subtidal	1	10		10.0	1.0	10.0	2.303	--
71	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
72	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
73	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
74	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
75	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
76	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
77	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
78	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
79	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
80	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
81	HCC-1B	4208	4208I	intertidal	3	19	UM(4)	9.5	1.0	9.5	2.251	--
82	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
83	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
84	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
85	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
86	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
87	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
88	Co-Trustee	HY-08	00313	subtidal	1	9.5		9.5	1.0	9.5	2.251	--
89	Co-Trustee	HY-12	00275	subtidal	1	9.4		9.4	1.0	9.4	2.241	--
90	HCC-1A	1102	1102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
91	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
92	HCC-1A	2101	2101S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
93	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
94	HCC-1A	2107	2107S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-15. Sampling data used to map injury footprints for 2-Methyl Phenol (MP2) in Hylebos Waterway. Injury threshold =53 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
95	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
96	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
97	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
98	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
99	HCC-1A	3105	3105S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
100	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
101	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
102	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
103	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
104	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
105	HCC-1A	5111	5111S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
106	Co-Trustee	HY-26	00217	subtidal	1	8.8		8.8	1.0	8.8	2.175	--
107	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
108	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.0	8.5	2.140	--
109	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
110	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.0	8.5	2.140	--
111	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.0	8.5	2.140	--
112	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
113	HCC-1A	4107	4107S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
114	HCC-1A	5103	5103S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
115	HCC-1A	5104	5104S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
116	HCC-1A	5107		subtidal	1	17	UM(4)	8.5	1.0	8.5	2.140	--
117	HCC-1A	5109	5109S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
118	Co-Trustee	HY-20	00127	subtidal	1	8.4		8.4	1.0	8.4	2.128	--
119	HCC-1C	1117	1117 S	subtidal	1	8	J	8.0	1.0	8.0	2.079	--
120	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
121	HCC-1A	5101	5101S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
122	HCC-1A	5102	5102S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
123	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
124	Co-Trustee	HY-15	00031	subtidal	1	8		8.0	1.0	8.0	2.079	--
125	Co-Trustee	HY-25	00204	subtidal	1	7.9		7.9	1.0	7.9	2.067	--
126	Co-Trustee	HY-21	00136	subtidal	1	7.8		7.8	1.0	7.8	2.054	--
127	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.0	7.5	2.015	--
128	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.0	7.5	2.015	--
129	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
130	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.0	7.5	2.015	--
131	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
132	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
133	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
134	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
135	Co-Trustee	HY-16	00044	subtidal	1	7.5	M(2)	7.5	1.0	7.5	2.008	--
136	Co-Trustee	HY-19		subtidal	1	7.4	M(3)	7.4	1.0	7.4	2.001	--
137	Co-Trustee	HY-11	00295	subtidal	1	7.3		7.3	1.0	7.3	1.988	--
138	Co-Trustee	HY-28	00256	subtidal	1	7.3	M(3)	7.3	1.0	7.3	1.983	--
139	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.0	7.0	1.946	--
140	HCC-1B	1212	1212I	intertidal	2	14	U	7.0	1.0	7.0	1.946	--
141	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.0	7.0	1.946	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-15. Sampling data used to map injury footprints for 2-Methyl Phenol (MP2) in Hylebos Waterway. Injury threshold =53 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
142	HCC-1A	2108	2108S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
143	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.0	7.0	1.946	--
144	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.0	7.0	1.946	--
145	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
146	Co-Trustee	HY-03	00426	subtidal	1	6.5	M(3)	6.5	1.0	6.5	1.877	--
147	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
148	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
149	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.0	6.5	1.872	--
150	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
151	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.0	6.5	1.872	--
152	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
153	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
154	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.0	6.5	1.872	--
155	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.0	6.5	1.872	--
156	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
157	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
158	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.0	6.5	1.872	--
159	HCC-1B	3201		intertidal	4	12.5	UM(4)	6.3	1.0	6.3	1.833	--
160	Co-Trustee	HY-13	00012	subtidal	1	6.2		6.2	1.0	6.2	1.825	--
161	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
162	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
163	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
164	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
165	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
166	Co-Trustee	HY-06		subtidal	1	5.9	M(3)	5.9	1.0	5.9	1.769	--
167	Co-Trustee	HY-05	00380	subtidal	1	5.5		5.5	1.0	5.5	1.705	--
168	Co-Trustee	HY-07	00352	subtidal	1	5.1		5.1	1.0	5.1	1.629	--
169	HCC-1C	1122	1122 S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
170	HCC-1C	1125	1125 S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
171	HCC-1C	2112	2112 S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
172	HCC-1C	5215	5215 I	intertidal	2	10	U	5.0	1.0	5.0	1.609	--
173	Co-Trustee	HY-27	00235	subtidal	1	4.8		4.8	1.0	4.8	1.569	--
174	Co-Trustee	HY-04	00420	subtidal	1	4.7		4.7	1.0	4.7	1.548	--
175	Co-Trustee	HY-22	00156	subtidal	1	4.7		4.7	1.0	4.7	1.548	--
176	HCC-1A	2106	2106S	subtidal	1	9.0	U	4.5	1.0	4.5	1.504	--
177	Co-Trustee	HY-02	00443	subtidal	1	4.5		4.5	1.0	4.5	1.504	--
178	Co-Trustee	HY-01	00456	subtidal	1	2.9		2.9	1.0	2.9	1.065	--
179	HCC-1B	4209	4209I	intertidal	2	3.8	U	1.9	1.0	1.9	0.642	--
180	Co-Trustee	HY-17	00062	subtidal	1	1.8		1.8	1.0	1.8	0.588	--
181	HCC-1B	4210	4210I	intertidal	3	3.3	U	1.7	1.0	1.7	0.501	--
182	HCC-1B	3216	3216I	intertidal	3	3.1	U	1.6	1.0	1.6	0.438	--
183	HCC-1B	4201	4201I	intertidal	4	2.8	U	1.4	1.0	1.4	0.336	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-16. Sampling data used to map injury footprints for Hexachlorobutadiene (HCBD) in Hylebos Waterway. Injury threshold =11 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	5208	5208I	intertidal	2	1100		1100	3.0	3,300.0	8.102	20%
2	HCC-1B	5209	5209I	intertidal	5	920		920	3.0	2,760.0	7.923	20%
3	HCC-1B	5206	5206I	intertidal	2	890		890	3.0	2,670.0	7.890	20%
4	HCC-1B	5205	5205I	intertidal	2	820		820	3.0	2,460.0	7.808	20%
5	HCC-1B	5207	5207I	intertidal	2	620		620	3.0	1,860.0	7.528	20%
6	HCC-1A	5108	5108S	subtidal	1	410		410	3.0	1,230.0	7.115	20%
7	HCC-1B	5211	5211I	intertidal	2	360		360	3.0	1,080.0	6.985	20%
8	HCC-1B	5210		intertidal	2	350		350	3.0	1,050.0	6.957	20%
9	HCC-1A	5106	5106S	subtidal	1	180		180.0	3.0	540.0	6.292	20%
10	HCC-1A	5109	5109S	subtidal	1	160		160	3.0	480.0	6.174	20%
11	HCC-1B	2206	2206I	intertidal	6	110		110	3.0	330.0	5.799	20%
12	HCC-1B	3214	3214I	intertidal	2	190	U	95.0	3.0	285.0	5.652	20%
13	Co-Trustee	HY-07	00352	subtidal	1	260		260.0	1.0	260.0	5.561	15%
14	Co-Trustee	HY-08	00313	subtidal	1	240		240.0	1.0	240.0	5.481	15%
15	Co-Trustee	HY-09	00348	subtidal	1	220		220.0	1.0	220.0	5.394	15%
16	HCC-1A	5111	5111S	subtidal	1	63		63	3.0	189.0	5.242	15%
17	HCC-1A	5105	5105S	subtidal	1	46	J	46	3.0	138.0	4.927	10%
18	Co-Trustee	HY-06		subtidal	1	124	M(3)	123.7	1.0	123.7	4.818	10%
19	Co-Trustee	HY-10	00326	subtidal	1	120		120.0	1.0	120.0	4.787	5%
20	HCC-1A	5116	5116S	subtidal	1	26	J	26	3.0	78.0	4.357	5%
21	Co-Trustee	HY-05	00380	subtidal	1	75		75.0	1.0	75.0	4.317	5%
22	HCC-1A	5113	5113S	subtidal	1	24	J	24	3.0	72.0	4.277	5%
23	HCC-1A	5107		subtidal	1	23	JM(4)	22.5	3.0	67.5	4.212	5%
24	HCC-1A	5112	5112S	subtidal	1	22	J	22	3.0	66.0	4.190	5%
25	Co-Trustee	HY-11	00295	subtidal	1	66		66.0	1.0	66.0	4.190	5%
26	Co-Trustee	HY-12	00275	subtidal	1	62		62.0	1.0	62.0	4.127	5%
27	HCC-1A	5110	5110S	subtidal	1	19	J	19	3.0	57.0	4.043	5%
28	HCC-1A	5115	5115S	subtidal	1	18	J	18	3.0	54.0	3.989	5%
29	Co-Trustee	HY-02	00443	subtidal	1	49		49.0	1.0	49.0	3.892	5%
30	HCC-1C	2114	2114 S	subtidal	1	16	J	16.0	3.0	48.0	3.871	5%
31	HCC-1B	5203	5203I	intertidal	2	16	J	16	3.0	48.0	3.871	5%
32	HCC-1A	5103	5103S	subtidal	1	15	J	15	3.0	45.0	3.807	5%
33	Co-Trustee	HY-19		subtidal	1	38	M(3)	37.7	1.0	37.7	3.629	5%
34	Co-Trustee	HY-04	00420	subtidal	1	37		37.0	1.0	37.0	3.611	5%
35	HCC-1A	4109		subtidal	1	11	J	11	3.0	33.0	3.497	5%
36	HCC-1A	5104	5104S	subtidal	1	11	J	11	3.0	33.0	3.497	5%
37	HCC-1A	5114	5114S	subtidal	1	11	J	11	3.0	33.0	3.497	5%
38	Co-Trustee	HY-03	00426	subtidal	1	31	M(3)	31.3	1.0	31.3	3.445	5%
39	HCC-1A	2103	2103S	subtidal	1	10	J	10	3.0	30.0	3.401	5%
40	HCC-1C	4120	4120 S	subtidal	1	10	J	10.0	3.0	30.0	3.401	5%
41	HCC-1A	5101	5101S	subtidal	1	10	J	10	3.0	30.0	3.401	5%
42	Co-Trustee	HY-15	00031	subtidal	1	25		25.0	1.0	25.0	3.219	5%
43	Co-Trustee	HY-16	00044	subtidal	1	25.0	M(2)	25.0	1.0	25.0	3.219	5%
44	Co-Trustee	HY-18	00082	subtidal	1	24		24.0	1.0	24.0	3.178	5%
45	Co-Trustee	HY-21	00136	subtidal	1	24		24.0	1.0	24.0	3.178	5%
46	Co-Trustee	HY-14	00020	subtidal	1	23		23.0	1.0	23.0	3.135	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

Table D-16. Sampling data used to map injury footprints for Hexachlorobutadiene (HCBD) in Hylebos Waterway. Injury threshold =11 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	3.0	21.0	3.045	5%
48	HCC-1A	2108	2108S	subtidal	1	7.0	N	7.0	3.0	21.0	3.045	5%
49	Co-Trustee	HY-20	00127	subtidal	1	19		19.0	1.0	19.0	2.944	5%
50	Co-Trustee	HY-22	00156	subtidal	1	17		17.0	1.0	17.0	2.833	5%
51	HCC-1A	1106	1106S	subtidal	1	11	U	5.5	3.0	16.5	2.803	5%
52	HCC-1A	1107	1107S	subtidal	1	11	U	5.5	3.0	16.5	2.803	5%
53	HCC-1A	1111	1111S	subtidal	1	11	U	5.5	3.0	16.5	2.803	5%
54	HCC-1A	2107	2107S	subtidal	1	11	U	5.5	3.0	16.5	2.803	5%
55	HCC-1A	2109	2109S	subtidal	1	11	U	5.5	3.0	16.5	2.803	5%
56	HCC-1B	4209	4209I	intertidal	2	11	U	5.5	3.0	16.5	2.803	5%
57	Co-Trustee	HY-13	00012	subtidal	1	16		16.0	1.0	16.0	2.773	5%
58	HCC-1A	1103	1103S	subtidal	1	10	U	5.0	3.0	15.0	2.708	5%
59	HCC-1A	1113	1113S	subtidal	1	10	U	5.0	3.0	15.0	2.708	5%
60	HCC-1C	2112	2112 S	subtidal	1	5.0	J	5.0	3.0	15.0	2.708	5%
61	HCC-1A	1109	1109S	subtidal	1	9.9	U	5.0	3.0	14.9	2.698	5%
62	HCC-1A	1112	1112S	subtidal	1	9.9	U	5.0	3.0	14.9	2.698	5%
63	HCC-1B	1201		intertidal	2	9.9	UM(4)	5.0	3.0	14.9	2.698	5%
64	HCC-1A	2105	2105S	subtidal	1	9.8	U	4.9	3.0	14.7	2.688	5%
65	HCC-1C	3109	3109 S	subtidal	1	9.8	U	4.9	3.0	14.7	2.688	5%
66	HCC-1B	3213	3213I	intertidal	2	9.8	U	4.9	3.0	14.7	2.688	5%
67	Co-Trustee	HY-01	00456	subtidal	1	14		14.0	1.0	14.0	2.639	5%
68	HCC-1A	1102	1102S	subtidal	1	9.3	U	4.7	3.0	14.0	2.635	5%
69	HCC-1A	1110	1110S	subtidal	1	9.2	U	4.6	3.0	13.8	2.625	5%
70	HCC-1B	1208	1208I	intertidal	2	9.2	U	4.6	3.0	13.8	2.625	5%
71	HCC-1A	2101	2101S	subtidal	1	9.2	U	4.6	3.0	13.8	2.625	5%
72	HCC-1C	3110	3110 S	subtidal	1	9.1	U	4.6	3.0	13.7	2.614	5%
73	HCC-1C	1117	1117 S	subtidal	1	9.0	U	4.5	3.0	13.5	2.603	5%
74	HCC-1A	2102	2102S	subtidal	1	9.0	U	4.5	3.0	13.5	2.603	5%
75	HCC-1A	2106	2106S	subtidal	1	9.0	U	4.5	3.0	13.5	2.603	5%
76	HCC-1B	3209	3209I	intertidal	3	9.0	U	4.5	3.0	13.5	2.603	5%
77	HCC-1A	3102	3102S	subtidal	1	8.7	U	4.4	3.0	13.1	2.569	5%
78	HCC-1C	1123	1123 S	subtidal	1	8.6	U	4.3	3.0	12.9	2.557	5%
79	HCC-1A	3106	3106S	subtidal	1	8.6	U	4.3	3.0	12.9	2.557	5%
80	HCC-1A	4104	4104S	subtidal	1	8.5	U	4.3	3.0	12.8	2.546	5%
81	HCC-1A	4107	4107S	subtidal	1	8.5	U	4.3	3.0	12.8	2.546	5%
82	HCC-1C	4117	4117 S	subtidal	1	8.4	U	4.2	3.0	12.6	2.534	5%
83	HCC-1C	1125	1125 S	subtidal	1	8.3	U	4.2	3.0	12.5	2.522	5%
84	HCC-1B	1215	1215I	intertidal	4	8.3	U	4.2	3.0	12.5	2.522	5%
85	HCC-1A	4106	4106S	subtidal	1	8.3	U	4.2	3.0	12.5	2.522	5%
86	HCC-1C	2115	2115 S	subtidal	1	8.2	U	4.1	3.0	12.3	2.510	5%
87	HCC-1A	2110	2110S	subtidal	1	8.0	U	4.0	3.0	12.0	2.485	5%
88	HCC-1A	3105	3105S	subtidal	1	8.0	U	4.0	3.0	12.0	2.485	5%
89	HCC-1A	4101	4101S	subtidal	1	8.0	U	4.0	3.0	12.0	2.485	5%
90	HCC-1B	4208	4208I	intertidal	3	4.0	J	4.0	3.0	12.0	2.485	5%
91	Co-Trustee	HY-23	00173	subtidal	1	12		12.0	1.0	12.0	2.485	5%
92	Co-Trustee	HY-24	00191	subtidal	1	12		12.0	1.0	12.0	2.485	5%
93	HCC-1B	3210	3210I	intertidal	2	7.7	U	3.9	3.0	11.6	2.447	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

Table D-16. Sampling data used to map injury footprints for Hexachlorobutadiene (HCBD) in Hylebos Waterway. Injury threshold =11 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
94	HCC-1A	4105	4105S	subtidal	1	7.6	U	3.8	3.0	11.4	2.434	5%
95	HCC-1A	4115	4115S	subtidal	1	7.6	U	3.8	3.0	11.4	2.434	5%
96	HCC-1A	3104	3104S	subtidal	1	7.3	U	3.7	3.0	11.0	2.393	5%
97	HCC-1A	4103	4103S	subtidal	1	7.3	U	3.7	3.0	11.0	2.393	5%
98	HCC-1C	1120	1120 S	subtidal	1	7.2	U	3.6	3.0	10.8	2.380	--
99	HCC-1B	3215	3215I	intertidal	2	7.2	U	3.6	3.0	10.8	2.380	--
100	HCC-1C	1126	1126 S	subtidal	1	7.1	U	3.6	3.0	10.7	2.366	--
101	HCC-1B	2202	2202I	intertidal	2	7.1	U	3.6	3.0	10.7	2.366	--
102	HCC-1B	3204	3204I	intertidal	3	7.1	U	3.6	3.0	10.7	2.366	--
103	HCC-1B	3219	3219I	intertidal	3	7.1	U	3.6	3.0	10.7	2.366	--
104	HCC-1B	2211	2211I	intertidal	2	7.0	U	3.5	3.0	10.5	2.351	--
105	HCC-1B	2215	2215I	intertidal	7	7.0	U	3.5	3.0	10.5	2.351	--
106	HCC-1A	3101	3101S	subtidal	1	7.0	U	3.5	3.0	10.5	2.351	--
107	HCC-1B	3217	3217I	intertidal	2	7.0	U	3.5	3.0	10.5	2.351	--
108	HCC-1C	1122	1122 S	subtidal	1	6.9	U	3.5	3.0	10.4	2.337	--
109	HCC-1B	3216	3216I	intertidal	3	6.9	U	3.5	3.0	10.4	2.337	--
110	HCC-1C	4118	4118 S	subtidal	1	6.9	U	3.5	3.0	10.4	2.337	--
111	HCC-1B	1202	1202I	intertidal	4	6.8	U	3.4	3.0	10.2	2.322	--
112	HCC-1B	3205	3205I	intertidal	2	6.8	U	3.4	3.0	10.2	2.322	--
113	HCC-1B	3212	3212I	intertidal	2	6.8	U	3.4	3.0	10.2	2.322	--
114	HCC-1C	2113	2113 S	subtidal	1	6.7	U	3.4	3.0	10.1	2.308	--
115	HCC-1C	5121	5121 S	subtidal	1	6.7	U	3.4	3.0	10.1	2.308	--
116	HCC-1B	1212	1212I	intertidal	2	6.6	U	3.3	3.0	9.9	2.293	--
117	HCC-1A	3103	3103S	subtidal	1	6.5	U	3.3	3.0	9.8	2.277	--
118	HCC-1A	5102	5102S	subtidal	1	6.5	U	3.3	3.0	9.8	2.277	--
119	HCC-1C	5120	5120 S	subtidal	1	6.5	U	3.3	3.0	9.8	2.277	--
120	HCC-1B	1206	1206I	intertidal	4	6.4	U	3.2	3.0	9.6	2.262	--
121	HCC-1B	2212	2212I	intertidal	3	6.4	U	3.2	3.0	9.6	2.262	--
122	HCC-1C	3107	3107 S	subtidal	1	6.4	U	3.2	3.0	9.6	2.262	--
123	Co-Trustee	HY-25	00204	subtidal	1	9.6		9.6	1.0	9.6	2.262	--
124	HCC-1B	1207	1207I	intertidal	2	6.2	U	3.1	3.0	9.3	2.230	--
125	HCC-1B	1209	1209I	intertidal	3	6.2	U	3.1	3.0	9.3	2.230	--
126	HCC-1B	1211	1211I	intertidal	2	6.2	U	3.1	3.0	9.3	2.230	--
127	HCC-1B	1213	1213I	intertidal	4	6.2	U	3.1	3.0	9.3	2.230	--
128	HCC-1C	4119	4119 S	subtidal	1	6.2	U	3.1	3.0	9.3	2.230	--
129	HCC-1C	1119	1119 S	subtidal	1	6.0	U	3.0	3.0	9.0	2.197	--
130	HCC-1A	2104	2104S	subtidal	1	6.0	U	3.0	3.0	9.0	2.197	--
131	HCC-1A	2111	2111S	subtidal	1	6.0	U	3.0	3.0	9.0	2.197	--
132	HCC-1B	2205	2205I	intertidal	3	6.0	U	3.0	3.0	9.0	2.197	--
133	HCC-1B	2209	2209I	intertidal	2	5.9	U	3.0	3.0	8.9	2.180	--
134	HCC-1B	2214	2214I	intertidal	2	5.9	U	3.0	3.0	8.9	2.180	--
135	Co-Trustee	HY-17	00062	subtidal	1	8.8		8.8	1.0	8.8	2.175	--
136	HCC-1B	1203	1203I	intertidal	7	5.8	U	2.9	3.0	8.7	2.163	--
137	HCC-1B	2210	2210I	intertidal	5	5.8	U	2.9	3.0	8.7	2.163	--
138	HCC-1B	2213	2213I	intertidal	4	5.8	U	2.9	3.0	8.7	2.163	--
139	HCC-1B	3211	3211I	intertidal	4	5.8	U	2.9	3.0	8.7	2.163	--
140	HCC-1B	4203	4203I	intertidal	2	5.8	U	2.9	3.0	8.7	2.163	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

Table D-16. Sampling data used to map injury footprints for Hexachlorobutadiene (HCBD) in Hylebos Waterway. Injury threshold =11 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
141	HCC-1C	5215	5215 I	intertidal	2	5.8	U	2.9	3.0	8.7	2.163	--
142	HCC-1B	3207	3207I	intertidal	2	5.6	U	2.8	3.0	8.4	2.128	--
143	HCC-1B	5214	5214I	intertidal	6	5.6	U	2.8	3.0	8.4	2.128	--
144	HCC-1C	4116	4116 S	subtidal	1	5.5	U	2.8	3.0	8.3	2.110	--
145	HCC-1B	4201	4201I	intertidal	4	5.5	U	2.8	3.0	8.3	2.110	--
146	HCC-1B	4206	4206I	intertidal	3	5.5	U	2.8	3.0	8.3	2.110	--
147	HCC-1B	4210	4210I	intertidal	3	5.5	U	2.8	3.0	8.3	2.110	--
148	HCC-1C	1121	1121 S	subtidal	1	5.4	U	2.7	3.0	8.1	2.092	--
149	HCC-1B	1204	1204I	intertidal	4	5.4	U	2.7	3.0	8.1	2.092	--
150	HCC-1B	1210	1210I	intertidal	2	5.4	U	2.7	3.0	8.1	2.092	--
151	HCC-1B	2208	2208I	intertidal	2	5.4	U	2.7	3.0	8.1	2.092	--
152	HCC-1B	4205	4205I	intertidal	3	5.4	U	2.7	3.0	8.1	2.092	--
153	HCC-1C	3108		subtidal	1	5.4	UM	2.7	3.0	8.0	2.083	--
154	HCC-1B	3201		intertidal	4	5.3	UM(4)	2.7	3.0	8.0	2.073	--
155	HCC-1B	3206	3206I	intertidal	3	5.3	U	2.7	3.0	8.0	2.073	--
156	HCC-1B	5201	5201I	intertidal	2	5.3	U	2.7	3.0	8.0	2.073	--
157	HCC-1C	1118	1118 S	subtidal	1	5.2	U	2.6	3.0	7.8	2.054	--
158	HCC-1B	2207	2207I	intertidal	2	5.2	U	2.6	3.0	7.8	2.054	--
159	HCC-1B	3203	3203I	intertidal	2	5.2	U	2.6	3.0	7.8	2.054	--
160	HCC-1B	3220	3220I	intertidal	3	5.2	U	2.6	3.0	7.8	2.054	--
161	HCC-1B	3221	3221I	intertidal	3	5.2	U	2.6	3.0	7.8	2.054	--
162	HCC-1A	4108	4108S	subtidal	1	5.2	U	2.6	3.0	7.8	2.054	--
163	HCC-1B	5202	5202I	intertidal	6	5.2	U	2.6	3.0	7.8	2.054	--
164	HCC-1A	4110	4110S	subtidal	1	5.1	U	2.6	3.0	7.7	2.035	--
165	HCC-1B	4202	4202I	intertidal	3	5.1	U	2.6	3.0	7.7	2.035	--
166	HCC-1B	4207	4207I	intertidal	3	5.1	U	2.6	3.0	7.7	2.035	--
167	HCC-1B	5212	5212I	intertidal	6	5.1	U	2.6	3.0	7.7	2.035	--
168	HCC-1B	1214	1214I	intertidal	3	5.0	U	2.5	3.0	7.5	2.015	--
169	HCC-1B	1217	1217I	intertidal	5	5.0	U	2.5	3.0	7.5	2.015	--
170	HCC-1B	5213	5213I	intertidal	4	5.0	U	2.5	3.0	7.5	2.015	--
171	HCC-1A	4111	4111S	subtidal	1	4.9	U	2.5	3.0	7.4	1.995	--
172	HCC-1B	4204	4204I	intertidal	4	4.9	U	2.5	3.0	7.4	1.995	--
173	Co-Trustee	HY-28	00256	subtidal	1	7.1	M(3)	7.1	1.0	7.1	1.955	--
174	HCC-1C	1124	1124 S	subtidal	1	4.6	U	2.3	3.0	6.9	1.932	--
175	Co-Trustee	HY-26	00217	subtidal	1	6.6		6.6	1.0	6.6	1.887	--
176	HCC-1A	1133	1133 S	subtidal	1	4.2	U	2.1	3.0	6.3	1.841	--
177	Co-Trustee	HY-27	00235	subtidal	1	5.7		5.7	1.0	5.7	1.740	--
178	HCC-1B	2204	2204I	intertidal	4	3.0	U	1.5	3.0	4.5	1.504	--
179	HCC-1A	4102	4102S	subtidal	1	3.0	U	1.5	3.0	4.5	1.504	--
180	HCC-1A	1108	1108S	subtidal	1	2.8	U	1.4	3.0	4.2	1.435	--
181	HCC-1A	1105	1105S	subtidal	1	2.6	U	1.3	3.0	3.9	1.361	--
182	HCC-1A	1101		subtidal	1	2.5	UM(4)	1.3	3.0	3.8	1.322	--
183	HCC-1A	1104	1104S	subtidal	1	2.3	U	1.2	3.0	3.5	1.238	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

Table D-17. Sampling data used to map injury footprints for 2,4-dimethyl phenol (DMP) in Hylebos Waterway. Injury threshold =29 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.0	65.0	4.174	10%
2	HCC-1C	2114	2114 S	subtidal	1	54		54.0	1.0	54.0	3.989	5%
3	HCC-1B	1201		intertidal	2	105	UM(4)	52.4	1.0	52.4	3.958	5%
4	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.0	48.5	3.882	5%
5	HCC-1B	3214	3214I	intertidal	2	96	U	48.0	1.0	48.0	3.871	5%
6	HCC-1A	4101	4101S	subtidal	1	36	J	36	1.0	36.0	3.584	5%
7	HCC-1B	5203	5203I	intertidal	2	57	U	28.5	1.0	28.5	3.350	--
8	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.0	26.0	3.258	--
9	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.0	23.5	3.157	--
10	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.0	23.0	3.135	--
11	Co-Trustee	HY-10	00326	subtidal	1	18		18.0	1.0	18.0	2.890	--
12	HCC-1A	1101		subtidal	1	35.5	UM(4)	17.8	1.0	17.8	2.876	--
13	HCC-1B	4205	4205I	intertidal	3	34	U	17.0	1.0	17.0	2.833	--
14	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.0	16.0	2.773	--
15	HCC-1B	3215	3215I	intertidal	2	32	U	16.0	1.0	16.0	2.773	--
16	HCC-1C	5215	5215 I	intertidal	2	32	U	16.0	1.0	16.0	2.773	--
17	Co-Trustee	HY-20	00127	subtidal	1	16		16.0	1.0	16.0	2.773	--
18	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.0	15.5	2.741	--
19	HCC-1B	2211	2211I	intertidal	2	31	U	15.5	1.0	15.5	2.741	--
20	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.0	15.0	2.708	--
21	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.0	14.5	2.674	--
22	HCC-1B	2208	2208I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
23	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
24	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.0	13.5	2.603	--
25	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
26	HCC-1B	5202	5202I	intertidal	6	27	U	13.5	1.0	13.5	2.603	--
27	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
28	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.0	13.5	2.603	--
29	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.0	13.0	2.565	--
30	HCC-1B	5210		intertidal	2	26	U	13.0	1.0	13.0	2.565	--
31	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.0	13.0	2.565	--
32	Co-Trustee	HY-08	00313	subtidal	1	13		13.0	1.0	13.0	2.565	--
33	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.0	12.5	2.526	--
34	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
35	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
36	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.0	12.0	2.485	--
37	Co-Trustee	HY-12	00275	subtidal	1	12		12.0	1.0	12.0	2.485	--
38	Co-Trustee	HY-17	00062	subtidal	1	12		12.0	1.0	12.0	2.485	--
39	HCC-1A	4109		subtidal	1	22.38	UM(4)	11.2	1.0	11.2	2.415	--
40	Co-Trustee	HY-09	00348	subtidal	1	11		11.0	1.0	11.0	2.398	--
41	Co-Trustee	HY-15	00031	subtidal	1	11		11.0	1.0	11.0	2.398	--
42	Co-Trustee	HY-21	00136	subtidal	1	11		11.0	1.0	11.0	2.398	--
43	Co-Trustee	HY-24	00191	subtidal	1	11		11.0	1.0	11.0	2.398	--
44	HCC-1C	1117	1117 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
45	HCC-1C	1121	1121 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
46	HCC-1C	1122	1122 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-17. Sampling data used to map injury footprints for 2,4-dimethyl phenol (DMP) in Hylebos Waterway. Injury threshold =29 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
48	HCC-1C	1124	1124 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
49	HCC-1C	1125	1125 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
50	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
51	HCC-1C	1133	1133 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
52	HCC-1A	2104	2104S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
53	HCC-1A	2106	2106S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
54	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
55	HCC-1C	2115	2115 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
56	HCC-1B	2212	2212I	intertidal	3	20	U	10.0	1.0	10.0	2.303	--
57	HCC-1C	3107	3107 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
58	HCC-1C	3108		subtidal	1	20	UM	10.0	1.0	10.0	2.303	--
59	HCC-1C	3110	3110 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
60	HCC-1A	4115	4115S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
61	HCC-1C	4117	4117 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
62	HCC-1C	4118	4118 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
63	HCC-1C	4119	4119 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
64	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
65	Co-Trustee	HY-18	00082	subtidal	1	10		10.0	1.0	10.0	2.303	--
66	Co-Trustee	HY-07	00352	subtidal	1	9.8		9.8	1.0	9.8	2.282	--
67	Co-Trustee	HY-06		subtidal	1	9.8	M(3)	9.8	1.0	9.8	2.279	--
68	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
69	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
70	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
71	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
72	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
73	HCC-1C	2112	2112 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
74	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
75	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
76	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
77	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
78	HCC-1B	4208	4208I	intertidal	3	19	UM(4)	9.5	1.0	9.5	2.251	--
79	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
80	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
81	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
82	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
83	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
84	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
85	Co-Trustee	HY-19		subtidal	1	9.2	M(3)	9.2	1.0	9.2	2.216	--
86	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
87	HCC-1A	2101	2101S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
88	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
89	HCC-1A	2107	2107S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
90	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
91	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
92	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
93	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-17. Sampling data used to map injury footprints for 2,4-dimethyl phenol (DMP) in Hylebos Waterway. Injury threshold =29 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
94	HCC-1A	3105	3105S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
95	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
96	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
97	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
98	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
99	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.0	8.5	2.140	--
100	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
101	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.0	8.5	2.140	--
102	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.0	8.5	2.140	--
103	HCC-1A	4107	4107S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
104	HCC-1A	5103	5103S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
105	HCC-1A	5104	5104S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
106	HCC-1A	5107		subtidal	1	17	UM(4)	8.5	1.0	8.5	2.140	--
107	Co-Trustee	HY-23	00173	subtidal	1	8.2		8.2	1.0	8.2	2.104	--
108	HCC-1A	1105	1105S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
109	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
110	HCC-1A	5102	5102S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
111	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
112	Co-Trustee	HY-25	00204	subtidal	1	8		8.0	1.0	8.0	2.079	--
113	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.0	7.5	2.015	--
114	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.0	7.5	2.015	--
115	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
116	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.0	7.5	2.015	--
117	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
118	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
119	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
120	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
121	Co-Trustee	HY-11	00295	subtidal	1	7.5		7.5	1.0	7.5	2.015	--
122	Co-Trustee	HY-03	00426	subtidal	1	7.5	M(3)	7.5	1.0	7.5	2.010	--
123	Co-Trustee	HY-16	00044	subtidal	1	7.4	M(2)	7.4	1.0	7.4	1.995	--
124	Co-Trustee	HY-13	00012	subtidal	1	7.1		7.1	1.0	7.1	1.960	--
125	Co-Trustee	HY-26	00217	subtidal	1	7.1		7.1	1.0	7.1	1.960	--
126	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.0	7.0	1.946	--
127	HCC-1B	1212	1212I	intertidal	2	14	U	7.0	1.0	7.0	1.946	--
128	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.0	7.0	1.946	--
129	HCC-1A	2109	2109S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
130	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.0	7.0	1.946	--
131	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.0	7.0	1.946	--
132	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
133	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
134	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
135	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.0	6.5	1.872	--
136	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
137	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.0	6.5	1.872	--
138	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
139	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
140	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.0	6.5	1.872	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-17. Sampling data used to map injury footprints for 2,4-dimethyl phenol (DMP) in Hylebos Waterway. Injury threshold =29 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
141	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.0	6.5	1.872	--
142	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
143	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
144	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.0	6.5	1.872	--
145	Co-Trustee	HY-22	00156	subtidal	1	6.5		6.5	1.0	6.5	1.872	--
146	HCC-1B	3201		intertidal	4	12.50	UM(4)	6.3	1.0	6.3	1.833	--
147	Co-Trustee	HY-28	00256	subtidal	1	6.1	M(3)	6.1	1.0	6.1	1.803	--
148	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
149	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
150	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
151	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
152	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
153	Co-Trustee	HY-04	00420	subtidal	1	5.6		5.6	1.0	5.6	1.723	--
154	Co-Trustee	HY-05	00380	subtidal	1	5.1		5.1	1.0	5.1	1.629	--
155	HCC-1A	1102	1102S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
156	HCC-1A	2103	2103S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
157	HCC-1A	2108	2108S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
158	HCC-1A	3106	3106S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
159	HCC-1A	4106	4106S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
160	HCC-1A	5109	5109S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
161	HCC-1A	5111	5111S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--
162	Co-Trustee	HY-14	00020	subtidal	1	4.9		4.9	1.0	4.9	1.589	--
163	Co-Trustee	HY-27	00235	subtidal	1	4.9		4.9	1.0	4.9	1.589	--
164	HCC-1A	1108	1108S	subtidal	1	9.6	U	4.8	1.0	4.8	1.569	--
165	Co-Trustee	HY-02	00443	subtidal	1	4.4		4.4	1.0	4.4	1.482	--
166	HCC-1B	3216	3216I	intertidal	3	4.1	N	4.1	1.0	4.1	1.411	--
167	HCC-1A	2111	2111S	subtidal	1	8.0	U	4.0	1.0	4.0	1.386	--
168	Co-Trustee	HY-01	00456	subtidal	1	3.7		3.7	1.0	3.7	1.308	--
169	HCC-1A	5101	5101S	subtidal	1	6.0	U	3.0	1.0	3.0	1.099	--
170	HCC-1B	1202	1202I	intertidal	4	5.4	U	2.7	1.0	2.7	0.993	--
171	HCC-1A	1103	1103S	subtidal	1	4.0	U	2.0	1.0	2.0	0.693	--
172	HCC-1A	1113	1113S	subtidal	1	4.0	U	2.0	1.0	2.0	0.693	--
173	HCC-1A	5108	5108S	subtidal	1	4.0	U	2.0	1.0	2.0	0.693	--
174	HCC-1A	1109	1109S	subtidal	1	3.8	U	1.9	1.0	1.9	0.642	--
175	HCC-1A	1112	1112S	subtidal	1	3.8	U	1.9	1.0	1.9	0.642	--
176	HCC-1B	4209	4209I	intertidal	2	3.8	U	1.9	1.0	1.9	0.642	--
177	HCC-1B	3204	3204I	intertidal	3	3.4	U	1.7	1.0	1.7	0.531	--
178	HCC-1B	3212	3212I	intertidal	2	3.4	U	1.7	1.0	1.7	0.531	--
179	HCC-1B	4210	4210I	intertidal	3	3.3	U	1.7	1.0	1.7	0.501	--
180	HCC-1B	2214	2214I	intertidal	2	3.2	U	1.6	1.0	1.6	0.470	--
181	HCC-1B	2215	2215I	intertidal	7	3.1	U	1.6	1.0	1.6	0.438	--
182	HCC-1B	3219	3219I	intertidal	3	3.1	U	1.6	1.0	1.6	0.438	--
183	HCC-1B	4201	4201I	intertidal	4	2.8	U	1.4	1.0	1.4	0.336	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-18. Sampling data used to map injury footprints for diethylphthalate (DEPH) in Hylebos Waterway. Injury threshold =6 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	3212	3212I	intertidal	2	110		110	1.7	187.0	5.231	5%
2	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.7	110.5	4.705	5%
3	HCC-1B	1201		intertidal	2	105.3	UM(4)	52.6	1.7	89.5	4.494	5%
4	HCC-1A	1108	1108S	subtidal	1	100	U	50.0	1.7	85.0	4.443	5%
5	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.7	82.5	4.412	5%
6	HCC-1B	3214	3214I	intertidal	2	96	U	48.0	1.7	81.6	4.402	5%
7	HCC-1B	4201	4201I	intertidal	4	91	U	45.5	1.7	77.4	4.348	5%
8	HCC-1A	2106	2106S	subtidal	1	75	U	37.5	1.7	63.8	4.155	5%
9	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.7	51.0	3.932	5%
10	HCC-1B	5203	5203I	intertidal	2	57	U	28.5	1.7	48.5	3.881	5%
11	HCC-1B	1202	1202I	intertidal	4	54	U	27.0	1.7	45.9	3.826	5%
12	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.7	44.2	3.789	5%
13	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.7	40.0	3.688	5%
14	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.7	39.1	3.666	5%
15	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.7	34.0	3.526	5%
16	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.7	32.3	3.475	5%
17	HCC-1B	4209	4209I	intertidal	2	38	U	19.0	1.7	32.3	3.475	5%
18	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.7	31.5	3.448	5%
19	HCC-1A	1112	1112S	subtidal	1	37	U	18.5	1.7	31.5	3.448	5%
20	HCC-1A	1103	1103S	subtidal	1	36	U	18.0	1.7	30.6	3.421	5%
21	HCC-1A	1113	1113S	subtidal	1	36	U	18.0	1.7	30.6	3.421	5%
22	HCC-1A	1101		subtidal	1	35.5	UM(4)	17.8	1.7	30.2	3.407	5%
23	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.7	28.9	3.364	5%
24	HCC-1B	4205	4205I	intertidal	3	34	U	17.0	1.7	28.9	3.364	5%
25	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.7	28.1	3.334	5%
26	HCC-1A	4107	4107S	subtidal	1	33	U	16.5	1.7	28.1	3.334	5%
27	HCC-1B	4210	4210I	intertidal	3	33	U	16.5	1.7	28.1	3.334	5%
28	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.7	27.2	3.303	5%
29	HCC-1B	2214	2214I	intertidal	2	32	U	16.0	1.7	27.2	3.303	5%
30	HCC-1B	3215	3215I	intertidal	2	32	U	16.0	1.7	27.2	3.303	5%
31	HCC-1C	5215	5215 I	intertidal	2	32	U	16.0	1.7	27.2	3.303	5%
32	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.7	26.4	3.271	5%
33	HCC-1B	2211	2211I	intertidal	2	31	U	15.5	1.7	26.4	3.271	5%
34	HCC-1B	2215	2215I	intertidal	7	31	U	15.5	1.7	26.4	3.271	5%
35	HCC-1B	3216	3216I	intertidal	3	31	U	15.5	1.7	26.4	3.271	5%
36	HCC-1B	3219	3219I	intertidal	3	31	U	15.5	1.7	26.4	3.271	5%
37	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.7	25.5	3.239	5%
38	HCC-1B	2212	2212I	intertidal	3	30	U	15.0	1.7	25.5	3.239	5%
39	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.7	24.7	3.205	5%
40	HCC-1B	2208	2208I	intertidal	2	28	U	14.0	1.7	23.8	3.170	5%
41	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.7	23.8	3.170	5%
42	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.7	23.0	3.133	5%
43	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.7	23.0	3.133	5%
44	HCC-1B	5202	5202I	intertidal	6	27	U	13.5	1.7	23.0	3.133	5%
45	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.7	23.0	3.133	5%
46	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.7	23.0	3.133	5%
47	HCC-1C	3108		subtidal	1	26.33333	M	13.2	1.7	22.4	3.108	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-18. Sampling data used to map injury footprints for diethylphthalate (DEPH) in Hylebos Waterway. Injury threshold =6 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
48	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.7	22.1	3.096	5%
49	HCC-1B	5210		intertidal	2	26	U	13.0	1.7	22.1	3.096	5%
50	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.7	22.1	3.096	5%
51	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.7	21.3	3.056	5%
52	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.7	21.3	3.056	5%
53	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	5%
54	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.7	20.4	3.016	5%
55	HCC-1C	1117	1117 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
56	HCC-1C	1121	1121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
57	HCC-1C	1122	1122 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
58	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
59	HCC-1C	1124	1124 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
60	HCC-1C	1125	1125 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
61	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
62	HCC-1A	1133	1133 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
63	HCC-1A	2104	2104S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
64	HCC-1A	2111	2111S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
65	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
66	HCC-1C	2114	2114 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
67	HCC-1C	2115	2115 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
68	HCC-1A	3107	3107 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
69	HCC-1C	3110	3110 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
70	HCC-1C	4117	4117 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
71	HCC-1A	4118	4118 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
72	HCC-1C	4119	4119 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
73	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	5%
74	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
75	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
76	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
77	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
78	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
79	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
80	HCC-1C	2112	2112 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
81	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
82	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
83	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
84	HCC-1A	4120	4120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
85	HCC-1B	4208	4208I	intertidal	3	19	UM(4)	9.5	1.7	16.2	2.782	5%
86	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
87	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
88	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
89	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
90	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
91	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	5%
92	HCC-1A	1102	1102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
93	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
94	HCC-1A	2101	2101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-18. Sampling data used to map injury footprints for diethylphthalate (DEPH) in Hylebos Waterway. Injury threshold =6 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
95	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
96	HCC-1A	2107	2107S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
97	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
98	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
99	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
100	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
101	HCC-1A	3105	3105S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
102	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
103	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
104	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
105	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
106	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
107	HCC-1A	5111	5111S	subtidal	1	18	U	9.0	1.7	15.3	2.728	5%
108	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	1.7	14.5	2.671	5%
109	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.7	14.5	2.671	5%
110	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.7	14.5	2.671	5%
111	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.7	14.5	2.671	5%
112	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.7	14.5	2.671	5%
113	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	5%
114	HCC-1A	5103	5103S	subtidal	1	17	U	8.5	1.7	14.5	2.671	5%
115	HCC-1A	5104	5104S	subtidal	1	17	U	8.5	1.7	14.5	2.671	5%
116	HCC-1A	5107		subtidal	1	17	UM(4)	8.5	1.7	14.5	2.671	5%
117	HCC-1A	5109	5109S	subtidal	1	17	U	8.5	1.7	14.5	2.671	5%
118	HCC-1B	1206	1206I	intertidal	4	16	U	8.0	1.7	13.6	2.610	5%
119	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.7	13.6	2.610	5%
120	HCC-1A	5101	5101S	subtidal	1	16	U	8.0	1.7	13.6	2.610	5%
121	HCC-1A	5102	5102S	subtidal	1	16	U	8.0	1.7	13.6	2.610	5%
122	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.7	13.6	2.610	5%
123	HCC-1A	4109		subtidal	1	15	UM(4)	7.6	1.7	13.0	2.562	5%
124	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	5%
125	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.7	12.8	2.546	5%
126	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.7	12.8	2.546	5%
127	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.7	12.8	2.546	5%
128	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.7	12.8	2.546	5%
129	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	5%
130	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	5%
131	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.7	11.9	2.477	5%
132	HCC-1B	1212	1212I	intertidal	2	14	U	7.0	1.7	11.9	2.477	5%
133	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.7	11.9	2.477	5%
134	HCC-1A	2108	2108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	5%
135	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.7	11.9	2.477	5%
136	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.7	11.9	2.477	5%
137	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	5%
138	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	5%
139	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	5%
140	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.7	11.1	2.402	5%
141	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-18. Sampling data used to map injury footprints for diethylphthalate (DEPH) in Hylebos Waterway. Injury threshold =6 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
142	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.7	11.1	2.402	5%
143	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	5%
144	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	5%
145	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	5%
146	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.7	11.1	2.402	5%
147	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	5%
148	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	5%
149	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.7	11.1	2.402	5%
150	HCC-1B	3201		intertidal	4	12.5	UM(4)	6.3	1.7	10.6	2.363	5%
151	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	5%
152	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.7	10.2	2.322	5%
153	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.7	10.2	2.322	5%
154	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.7	10.2	2.322	5%
155	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.7	10.2	2.322	5%
156	Co-Trustee	HY-24	00191	subtidal	1	8.3		8.3	1.0	8.3	2.116	5%
157	Co-Trustee	HY-16	00044	subtidal	1	6.7	M(2)	6.7	1.0	6.7	1.895	5%
158	Co-Trustee	HY-21	00136	subtidal	1	6.4		6.4	1.0	6.4	1.856	5%
159	Co-Trustee	HY-10	00326	subtidal	1	5.1		5.1	1.0	5.1	1.629	--
160	Co-Trustee	HY-26	00217	subtidal	1	5		5.0	1.0	5.0	1.609	--
161	Co-Trustee	HY-28	00256	subtidal	1	4.8	M(3)	4.8	1.0	4.8	1.569	--
162	Co-Trustee	HY-12	00275	subtidal	1	4.5		4.5	1.0	4.5	1.504	--
163	Co-Trustee	HY-15	00031	subtidal	1	4.3		4.3	1.0	4.3	1.459	--
164	Co-Trustee	HY-08	00313	subtidal	1	4.2		4.2	1.0	4.2	1.435	--
165	Co-Trustee	HY-20	00127	subtidal	1	4.1		4.1	1.0	4.1	1.411	--
166	Co-Trustee	HY-11	00295	subtidal	1	3.9		3.9	1.0	3.9	1.361	--
167	Co-Trustee	HY-23	00173	subtidal	1	3.4		3.4	1.0	3.4	1.224	--
168	Co-Trustee	HY-19		subtidal	1	3.4	M(3)	3.4	1.0	3.4	1.214	--
169	Co-Trustee	HY-01	00456	subtidal	1	3.3		3.3	1.0	3.3	1.194	--
170	Co-Trustee	HY-18	00082	subtidal	1	3.3		3.3	1.0	3.3	1.194	--
171	Co-Trustee	HY-25	00204	subtidal	1	3.3		3.3	1.0	3.3	1.194	--
172	Co-Trustee	HY-05	00380	subtidal	1	3		3.0	1.0	3.0	1.099	--
173	Co-Trustee	HY-14	00020	subtidal	1	3		3.0	1.0	3.0	1.099	--
174	Co-Trustee	HY-03	00426	subtidal	1	3.0	M(3)	3.0	1.0	3.0	1.087	--
175	Co-Trustee	HY-02	00443	subtidal	1	2.8		2.8	1.0	2.8	1.030	--
176	Co-Trustee	HY-04	00420	subtidal	1	2.6		2.6	1.0	2.6	0.956	--
177	Co-Trustee	HY-07	00352	subtidal	1	2.6		2.6	1.0	2.6	0.956	--
178	Co-Trustee	HY-09	00348	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
179	Co-Trustee	HY-06		subtidal	1	2.4	M(3)	2.4	1.0	2.4	0.889	--
180	Co-Trustee	HY-13	00012	subtidal	1	2.3		2.3	1.0	2.3	0.833	--
181	Co-Trustee	HY-27	00235	subtidal	1	2.1		2.1	1.0	2.1	0.742	--
182	Co-Trustee	HY-17	00062	subtidal	1	1.9		1.9	1.0	1.9	0.642	--
183	Co-Trustee	HY-22	00156	subtidal	1	0.52		0.5	1.0	0.5	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-19. Data used to map injury footprints for bis(2-ethylhexyl) phthalate (bEPH) in Hylebos Waterway. Injury threshold =1300 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	3214	3214I	intertidal	2	20000		20000	1.7	34,000.0	10.434	20%
2	HCC-1A	4107	4107S	subtidal	1	12000	J	12000	1.7	20,400.0	9.923	20%
3	HCC-1B	2211	2211I	intertidal	2	4900	J	4900	1.7	8,330.0	9.028	20%
4	HCC-1B	4206	4206I	intertidal	3	3600		3600	1.7	6,120.0	8.719	20%
5	HCC-1B	5202	5202I	intertidal	6	2600	J	2600	1.7	4,420.0	8.394	20%
6	HCC-1B	5203	5203I	intertidal	2	2000		2000	1.7	3,400.0	8.132	20%
7	HCC-1A	2106	2106S	subtidal	1	1300		1300	1.7	2,210.0	7.701	20%
8	HCC-1B	2214	2214I	intertidal	2	1200		1200	1.7	2,040.0	7.621	20%
9	HCC-1B	1217	1217I	intertidal	5	1100		1100	1.7	1,870.0	7.534	5%
10	HCC-1A	1105	1105S	subtidal	1	1000		1000	1.7	1,700.0	7.438	5%
11	HCC-1B	2212	2212I	intertidal	3	990	J	990	1.7	1,683.0	7.428	5%
12	HCC-1B	3216	3216I	intertidal	3	960	J	960	1.7	1,632.0	7.398	5%
13	HCC-1A	1102	1102S	subtidal	1	930		930	1.7	1,581.0	7.366	5%
14	HCC-1C	2115	2115 S	subtidal	1	900	J	900.0	1.7	1,530.0	7.333	5%
15	HCC-1B	5210		intertidal	2	870		870	1.7	1,479.0	7.299	5%
16	Co-Trustee	HY-28	00256	subtidal	1	1467	M(3)	1466.7	1.0	1,466.7	7.291	5%
17	HCC-1B	2210	2210I	intertidal	5	840	J	840	1.7	1,428.0	7.264	5%
18	Co-Trustee	HY-24	00191	subtidal	1	1400		1400.0	1.0	1,400.0	7.244	5%
19	HCC-1A	2108	2108S	subtidal	1	730		730	1.7	1,241.0	7.124	--
20	Co-Trustee	HY-27	00235	subtidal	1	1200		1200.0	1.0	1,200.0	7.090	--
21	HCC-1B	5206	5206I	intertidal	2	670		670	1.7	1,139.0	7.038	--
22	Co-Trustee	HY-09	00348	subtidal	1	1100		1100.0	1.0	1,100.0	7.003	--
23	HCC-1C	5215	5215 I	intertidal	2	640	J	640.0	1.7	1,088.0	6.992	--
24	HCC-1B	2215	2215I	intertidal	7	620		620	1.7	1,054.0	6.960	--
25	HCC-1A	1109	1109S	subtidal	1	600		600	1.7	1,020.0	6.928	--
26	Co-Trustee	HY-25	00204	subtidal	1	1000		1000.0	1.0	1,000.0	6.908	--
27	HCC-1B	1216	1216I	intertidal	3	570		570	1.7	969.0	6.876	--
28	HCC-1A	1107	1107S	subtidal	1	550		550	1.7	935.0	6.841	--
29	HCC-1A	1108	1108S	subtidal	1	550		550	1.7	935.0	6.841	--
30	Co-Trustee	HY-23	00173	subtidal	1	920		920.0	1.0	920.0	6.824	--
31	Co-Trustee	HY-26	00217	subtidal	1	920		920.0	1.0	920.0	6.824	--
32	HCC-1A	1104	1104S	subtidal	1	540		540	1.7	918.0	6.822	--
33	HCC-1C	1120	1120 S	subtidal	1	540	J	540.0	1.7	918.0	6.822	--
34	HCC-1A	2105	2105S	subtidal	1	540		540	1.7	918.0	6.822	--
35	HCC-1A	1112	1112S	subtidal	1	520		520	1.7	884.0	6.784	--
36	HCC-1B	3215	3215I	intertidal	2	510	J	510	1.7	867.0	6.765	--
37	HCC-1C	1121	1121 S	subtidal	1	500	J	500.0	1.7	850.0	6.745	--
38	HCC-1B	5211	5211I	intertidal	2	500		500	1.7	850.0	6.745	--
39	HCC-1A	2107	2107S	subtidal	1	490		490	1.7	833.0	6.725	--
40	HCC-1C	1117	1117 S	subtidal	1	460		460.0	1.7	782.0	6.662	--
41	Co-Trustee	HY-21	00136	subtidal	1	770		770.0	1.0	770.0	6.646	--
42	Co-Trustee	HY-20	00127	subtidal	1	760		760.0	1.0	760.0	6.633	--
43	HCC-1A	1111	1111S	subtidal	1	440		440	1.7	748.0	6.617	--
44	HCC-1A	3105	3105S	subtidal	1	440	J	440	1.7	748.0	6.617	--
45	HCC-1A	1103	1103S	subtidal	1	420		420	1.7	714.0	6.571	--
46	HCC-1B	1212	1212I	intertidal	2	420	J	420	1.7	714.0	6.571	--
47	HCC-1A	2109	2109S	subtidal	1	420		420	1.7	714.0	6.571	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-19. Data used to map injury footprints for bis(2-ethylhexyl) phthalate (bEPH) in Hylebos Waterway. Injury threshold =1300 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
48	Co-Trustee	HY-16	00044	subtidal	1	705	M(2)	705.0	1.0	705.0	6.558	--
49	HCC-1B	5207	5207I	intertidal	2	400		400	1.7	680.0	6.522	--
50	HCC-1B	1201		intertidal	2	768	M(4)	383.8	1.7	652.4	6.481	--
51	HCC-1A	5101	5101S	subtidal	1	380		380	1.7	646.0	6.471	--
52	HCC-1A	1106	1106S	subtidal	1	370		370	1.7	629.0	6.444	--
53	HCC-1A	1110	1110S	subtidal	1	370	J	370	1.7	629.0	6.444	--
54	HCC-1A	2103	2103S	subtidal	1	370		370	1.7	629.0	6.444	--
55	HCC-1A	1113	1113S	subtidal	1	360		360	1.7	612.0	6.417	--
56	Co-Trustee	HY-22	00156	subtidal	1	600		600.0	1.0	600.0	6.397	--
57	HCC-1A	2102	2102S	subtidal	1	350		350	1.7	595.0	6.389	--
58	HCC-1A	2110	2110S	subtidal	1	340		340	1.7	578.0	6.360	--
59	HCC-1B	3213	3213I	intertidal	2	340	J	340	1.7	578.0	6.360	--
60	HCC-1A	4106	4106S	subtidal	1	340		340	1.7	578.0	6.360	--
61	HCC-1B	4209	4209I	intertidal	2	340		340	1.7	578.0	6.360	--
62	HCC-1A	1101		subtidal	1	673	M(4)	336.3	1.7	571.6	6.348	--
63	HCC-1B	1208	1208I	intertidal	2	330		330	1.7	561.0	6.330	--
64	Co-Trustee	HY-18	00082	subtidal	1	560		560.0	1.0	560.0	6.328	--
65	Co-Trustee	HY-05	00380	subtidal	1	550		550.0	1.0	550.0	6.310	--
66	Co-Trustee	HY-03	00426	subtidal	1	543	M(3)	543.3	1.0	543.3	6.298	--
67	Co-Trustee	HY-19		subtidal	1	533	M(3)	533.3	1.0	533.3	6.279	--
68	HCC-1B	1203	1203I	intertidal	7	310		310	1.7	527.0	6.267	--
69	HCC-1A	2104	2104S	subtidal	1	310		310	1.7	527.0	6.267	--
70	Co-Trustee	HY-15	00031	subtidal	1	520		520.0	1.0	520.0	6.254	--
71	HCC-1C	1122	1122 S	subtidal	1	300	J	300.0	1.7	510.0	6.234	--
72	HCC-1C	1125	1125 S	subtidal	1	300		300.0	1.7	510.0	6.234	--
73	HCC-1C	1126	1126 S	subtidal	1	300		300.0	1.7	510.0	6.234	--
74	HCC-1C	1133	1133 S	subtidal	1	300	J	300.0	1.7	510.0	6.234	--
75	HCC-1C	2112	2112 S	subtidal	1	300		300.0	1.7	510.0	6.234	--
76	HCC-1A	3106	3106S	subtidal	1	300		300	1.7	510.0	6.234	--
77	HCC-1B	3210	3210I	intertidal	2	290	J	290	1.7	493.0	6.201	--
78	HCC-1B	5209	5209I	intertidal	5	290		290	1.7	493.0	6.201	--
79	HCC-1A	5106	5106S	subtidal	1	280		280	1.7	476.0	6.165	--
80	Co-Trustee	HY-10	00326	subtidal	1	460		460.0	1.0	460.0	6.131	--
81	HCC-1C	1118	1118 S	subtidal	1	260	J	260.0	1.7	442.0	6.091	--
82	HCC-1A	4115	4115S	subtidal	1	260		260	1.7	442.0	6.091	--
83	HCC-1B	3212	3212I	intertidal	2	250	J	250	1.7	425.0	6.052	--
84	HCC-1B	1206	1206I	intertidal	4	240	J	240	1.7	408.0	6.011	--
85	HCC-1B	2209	2209I	intertidal	2	240		240	1.7	408.0	6.011	--
86	HCC-1A	3104	3104S	subtidal	1	240		240	1.7	408.0	6.011	--
87	HCC-1C	3107	3107 S	subtidal	1	240		240.0	1.7	408.0	6.011	--
88	HCC-1A	5115	5115S	subtidal	1	240		240	1.7	408.0	6.011	--
89	HCC-1A	5116	5116S	subtidal	1	240		240	1.7	408.0	6.011	--
90	HCC-1B	5205	5205I	intertidal	2	240		240	1.7	408.0	6.011	--
91	HCC-1C	4117	4117 S	subtidal	1	230		230.0	1.7	391.0	5.969	--
92	HCC-1A	5109	5109S	subtidal	1	230		230	1.7	391.0	5.969	--
93	HCC-1C	4118	4118 S	subtidal	1	220	J	220.0	1.7	374.0	5.924	--
94	HCC-1C	4120	4120 S	subtidal	1	220		220.0	1.7	374.0	5.924	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-19. Data used to map injury footprints for bis(2-ethylhexyl) phthalate (bEPH) in Hylebos Waterway. Injury threshold =1300 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
95	HCC-1A	5112	5112S	subtidal	1	220		220	1.7	374.0	5.924	--
96	HCC-1B	1210	1210I	intertidal	2	210		210	1.7	357.0	5.878	--
97	HCC-1B	1211	1211I	intertidal	2	210		210	1.7	357.0	5.878	--
98	HCC-1A	2111	2111S	subtidal	1	210		210	1.7	357.0	5.878	--
99	HCC-1A	3102	3102S	subtidal	1	200		200	1.7	340.0	5.829	--
100	HCC-1B	4205	4205I	intertidal	3	200		200	1.7	340.0	5.829	--
101	HCC-1A	5103	5103S	subtidal	1	200		200	1.7	340.0	5.829	--
102	Co-Trustee	HY-12	00275	subtidal	1	330		330.0	1.0	330.0	5.799	--
103	HCC-1B	1207	1207I	intertidal	2	190	J	190	1.7	323.0	5.778	--
104	HCC-1B	1213	1213I	intertidal	4	190		190	1.7	323.0	5.778	--
105	HCC-1C	3109	3109 S	subtidal	1	190		190.0	1.7	323.0	5.778	--
106	Co-Trustee	HY-11	00295	subtidal	1	310		310.0	1.0	310.0	5.737	--
107	HCC-1A	2101	2101S	subtidal	1	180		180	1.7	306.0	5.724	--
108	HCC-1A	3103	3103S	subtidal	1	180		180	1.7	306.0	5.724	--
109	HCC-1B	4210	4210I	intertidal	3	180	J	180	1.7	306.0	5.724	--
110	HCC-1A	5108	5108S	subtidal	1	180		180	1.7	306.0	5.724	--
111	HCC-1A	5111	5111S	subtidal	1	180		180	1.7	306.0	5.724	--
112	HCC-1A	3101	3101S	subtidal	1	170		170	1.7	289.0	5.666	--
113	HCC-1B	2205	2205I	intertidal	3	160		160	1.7	272.0	5.606	--
114	HCC-1B	2208	2208I	intertidal	2	160		160	1.7	272.0	5.606	--
115	HCC-1B	3203	3203I	intertidal	2	160	J	160	1.7	272.0	5.606	--
116	HCC-1B	3217	3217I	intertidal	2	160	J	160	1.7	272.0	5.606	--
117	HCC-1A	4108	4108S	subtidal	1	160		160	1.7	272.0	5.606	--
118	Co-Trustee	HY-07	00352	subtidal	1	270		270.0	1.0	270.0	5.598	--
119	HCC-1B	1202	1202I	intertidal	4	150		150	1.7	255.0	5.541	--
120	HCC-1C	2114	2114 S	subtidal	1	150	J	150.0	1.7	255.0	5.541	--
121	Co-Trustee	HY-04	00420	subtidal	1	250		250.0	1.0	250.0	5.521	--
122	HCC-1B	2206	2206I	intertidal	6	140		140	1.7	238.0	5.472	--
123	HCC-1C	3110	3110 S	subtidal	1	140	J	140.0	1.7	238.0	5.472	--
124	HCC-1A	4105	4105S	subtidal	1	140	J	140	1.7	238.0	5.472	--
125	HCC-1A	5110	5110S	subtidal	1	140		140	1.7	238.0	5.472	--
126	HCC-1C	5120	5120 S	subtidal	1	140		140.0	1.7	238.0	5.472	--
127	HCC-1B	3204	3204I	intertidal	3	130	J	130	1.7	221.0	5.398	--
128	HCC-1B	5208	5208I	intertidal	2	130		130	1.7	221.0	5.398	--
129	HCC-1C	1123	1123 S	subtidal	1	120		120.0	1.7	204.0	5.318	--
130	HCC-1B	2202	2202I	intertidal	2	120	J	120	1.7	204.0	5.318	--
131	HCC-1A	4103	4103S	subtidal	1	120		120	1.7	204.0	5.318	--
132	HCC-1C	4119	4119 S	subtidal	1	120	J	120.0	1.7	204.0	5.318	--
133	HCC-1A	5102	5102S	subtidal	1	120		120	1.7	204.0	5.318	--
134	HCC-1B	1204	1204I	intertidal	4	110	J	110	1.7	187.0	5.231	--
135	HCC-1B	2204	2204I	intertidal	4	110		110	1.7	187.0	5.231	--
136	HCC-1B	3219	3219I	intertidal	3	110	J	110	1.7	187.0	5.231	--
137	HCC-1A	4101	4101S	subtidal	1	110	N	110	1.7	187.0	5.231	--
138	HCC-1A	4104	4104S	subtidal	1	110		110	1.7	187.0	5.231	--
139	HCC-1A	5104	5104S	subtidal	1	110		110	1.7	187.0	5.231	--
140	HCC-1A	5114	5114S	subtidal	1	110		110	1.7	187.0	5.231	--
141	HCC-1B	5212	5212I	intertidal	6	110		110	1.7	187.0	5.231	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-19. Data used to map injury footprints for bis(2-ethylhexyl) phthalate (bEPH) in Hylebos Waterway. Injury threshold =1300 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
142	Co-Trustee	HY-14	00020	subtidal	1	180		180.0	1.0	180.0	5.193	--
143	HCC-1C	2113	2113 S	subtidal	1	100	J	100.0	1.7	170.0	5.136	--
144	Co-Trustee	HY-06		subtidal	1	170	M(3)	170.0	1.0	170.0	5.136	--
145	HCC-1B	3207	3207I	intertidal	2	96	J	96	1.7	163.2	5.095	--
146	Co-Trustee	HY-08	00313	subtidal	1	160		160.0	1.0	160.0	5.075	--
147	HCC-1C	1119	1119 S	subtidal	1	88	J	88.0	1.7	149.6	5.008	--
148	HCC-1A	4109		subtidal	1	165	M(4)	82.5	1.7	140.3	4.943	--
149	HCC-1B	3209	3209I	intertidal	3	82		82	1.7	139.4	4.937	--
150	HCC-1B	3205	3205I	intertidal	2	80	J	80	1.7	136.0	4.913	--
151	HCC-1B	2213	2213I	intertidal	4	79	J	79	1.7	134.3	4.900	--
152	HCC-1C	5121	5121 S	subtidal	1	78		78.0	1.7	132.6	4.887	--
153	HCC-1B	4208	4208I	intertidal	3	156	JM(4)	77.9	1.7	132.4	4.886	--
154	HCC-1C	1124	1124 S	subtidal	1	77	J	77.0	1.7	130.9	4.874	--
155	HCC-1A	5105	5105S	subtidal	1	74		74	1.7	125.8	4.835	--
156	HCC-1B	5201	5201I	intertidal	2	73		73	1.7	124.1	4.821	--
157	HCC-1B	3211	3211I	intertidal	4	67		67	1.7	113.9	4.735	--
158	HCC-1B	2207	2207I	intertidal	2	66		66	1.7	112.2	4.720	--
159	HCC-1C	4116	4116 S	subtidal	1	64		64.0	1.7	108.8	4.690	--
160	HCC-1A	5113	5113S	subtidal	1	62		62	1.7	105.4	4.658	--
161	HCC-1B	1215	1215I	intertidal	4	60		60	1.7	102.0	4.625	--
162	HCC-1A	5107		subtidal	1	118	M(4)	59.1	1.7	100.5	4.610	--
163	Co-Trustee	HY-13	00012	subtidal	1	100		100.0	1.0	100.0	4.605	--
164	HCC-1B	5214	5214I	intertidal	6	57		57	1.7	96.9	4.574	--
165	Co-Trustee	HY-01	00456	subtidal	1	94		94.0	1.0	94.0	4.543	--
166	Co-Trustee	HY-02	00443	subtidal	1	89		89.0	1.0	89.0	4.489	--
167	HCC-1B	3206	3206I	intertidal	3	52	J	52	1.7	88.4	4.482	--
168	HCC-1B	3201		intertidal	4	95	JM(4)	47.4	1.7	80.5	4.389	--
169	HCC-1A	4102	4102S	subtidal	1	46		46	1.7	78.2	4.359	--
170	HCC-1B	5213	5213I	intertidal	4	44		44	1.7	74.8	4.315	--
171	Co-Trustee	HY-17	00062	subtidal	1	71		71.0	1.0	71.0	4.263	--
172	HCC-1B	3221	3221I	intertidal	3	41		41	1.7	69.7	4.244	--
173	HCC-1B	1209	1209I	intertidal	3	39		39	1.7	66.3	4.194	--
174	HCC-1B	4207	4207I	intertidal	3	35		35	1.7	59.5	4.086	--
175	HCC-1B	4201	4201I	intertidal	4	58	U	29.0	1.7	49.3	3.898	--
176	HCC-1C	3108		subtidal	1	48	JM	23.9	1.7	40.7	3.705	--
177	HCC-1B	1214	1214I	intertidal	3	41	U	20.5	1.7	34.9	3.551	--
178	HCC-1B	4203	4203I	intertidal	2	41	U	20.5	1.7	34.9	3.551	--
179	HCC-1B	4202	4202I	intertidal	3	37	U	18.5	1.7	31.5	3.448	--
180	HCC-1B	3220	3220I	intertidal	3	24	U	12.0	1.7	20.4	3.016	--
181	HCC-1B	4204	4204I	intertidal	4	19	U	9.5	1.7	16.2	2.782	--
182	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
183	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-20. Sampling data used to map injury footprints for dimethyl phthalate (DMPH) in Hylebos Waterway. Injury threshold =71 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	1212	1212I	intertidal	2	470	J	470	1.7	799.0	6.683	20%
2	HCC-1B	3215	3215I	intertidal	2	430		430	1.7	731.0	6.594	15%
3	HCC-1B	1210	1210I	intertidal	2	360		360	1.7	612.0	6.417	15%
4	HCC-1B	3214	3214I	intertidal	2	220		220	1.7	374.0	5.924	5%
5	HCC-1A	1111	1111S	subtidal	1	140		140	1.7	238.0	5.472	5%
6	HCC-1C	1122	1122 S	subtidal	1	100		100.0	1.7	170.0	5.136	5%
7	HCC-1C	1133	1133 S	subtidal	1	89		89.0	1.7	151.3	5.019	5%
8	HCC-1A	1113	1113S	subtidal	1	87		87	1.7	147.9	4.997	5%
9	HCC-1B	1211	1211I	intertidal	2	79		79	1.7	134.3	4.900	5%
10	HCC-1B	5210		intertidal	2	67	J	67	1.7	113.9	4.735	5%
11	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.7	110.5	4.705	5%
12	HCC-1B	2215	2215I	intertidal	7	54	J	54	1.7	91.8	4.520	5%
13	HCC-1B	1201		intertidal	2	105.3	UM(4)	52.6	1.7	89.5	4.494	5%
14	HCC-1A	1108	1108S	subtidal	1	100	U	50.0	1.7	85.0	4.443	5%
15	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.7	82.5	4.412	5%
16	HCC-1B	4201	4201I	intertidal	4	91	U	45.5	1.7	77.4	4.348	5%
17	HCC-1C	1121	1121 S	subtidal	1	45		45.0	1.7	76.5	4.337	5%
18	Co-Trustee	HY-24	00191	subtidal	1	75		75.0	1.0	75.0	4.317	5%
19	HCC-1A	1112	1112S	subtidal	1	44		44	1.7	74.8	4.315	5%
20	Co-Trustee	HY-21	00136	subtidal	1	65		65.0	1.0	65.0	4.174	--
21	HCC-1A	2106	2106S	subtidal	1	75	U	37.5	1.7	63.8	4.155	--
22	HCC-1A	2103	2103S	subtidal	1	37		37	1.7	62.9	4.142	--
23	HCC-1A	1107	1107S	subtidal	1	36		36	1.7	61.2	4.114	--
24	HCC-1A	2102	2102S	subtidal	1	36		36	1.7	61.2	4.114	--
25	Co-Trustee	HY-27	00235	subtidal	1	60		60.0	1.0	60.0	4.094	--
26	HCC-1A	2107	2107S	subtidal	1	33		33	1.7	56.1	4.027	--
27	HCC-1C	2115	2115 S	subtidal	1	33		33.0	1.7	56.1	4.027	--
28	Co-Trustee	HY-28	00256	subtidal	1	55.7	M(3)	55.7	1.0	55.7	4.019	--
29	Co-Trustee	HY-20	00127	subtidal	1	55		55.0	1.0	55.0	4.007	--
30	HCC-1C	3108		subtidal	1	64.33333	M	32.2	1.7	54.7	4.002	--
31	Co-Trustee	HY-26	00217	subtidal	1	54		54.0	1.0	54.0	3.989	--
32	HCC-1A	1102	1102S	subtidal	1	31		31	1.7	52.7	3.965	--
33	HCC-1A	2108	2108S	subtidal	1	30		30	1.7	51.0	3.932	--
34	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.7	51.0	3.932	--
35	HCC-1B	5203	5203I	intertidal	2	57	U	28.5	1.7	48.5	3.881	--
36	Co-Trustee	HY-25	00204	subtidal	1	48		48.0	1.0	48.0	3.871	--
37	HCC-1A	2105	2105S	subtidal	1	28	J	28	1.7	47.6	3.863	--
38	Co-Trustee	HY-10	00326	subtidal	1	47		47.0	1.0	47.0	3.850	--
39	HCC-1A	1110	1110S	subtidal	1	27	J	27	1.7	45.9	3.826	--
40	HCC-1B	1202	1202I	intertidal	4	54	U	27.0	1.7	45.9	3.826	--
41	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.7	44.2	3.789	--
42	HCC-1A	2101	2101S	subtidal	1	24	J	24	1.7	40.8	3.709	--
43	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.7	40.0	3.688	--
44	HCC-1A	3105	3105S	subtidal	1	23	J	23	1.7	39.1	3.666	--
45	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.7	39.1	3.666	--
46	HCC-1B	3219	3219I	intertidal	3	22	J	22	1.7	37.4	3.622	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

3/13/02

Table D-20. Sampling data used to map injury footprints for dimethyl phthalate (DMPH) in Hylebos Waterway. Injury threshold =71 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
47	Co-Trustee	HY-23	00173	subtidal	1	36		36.0	1.0	36.0	3.584	--
48	HCC-1A	2104	2104S	subtidal	1	21	J	21	1.7	35.7	3.575	--
49	HCC-1C	3110	3110 S	subtidal	1	21		21.0	1.7	35.7	3.575	--
50	Co-Trustee	HY-16	00044	subtidal	1	34.5	M(2)	34.5	1.0	34.5	3.541	--
51	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.7	34.0	3.526	--
52	HCC-1A	1106	1106S	subtidal	1	20	J	20	1.7	34.0	3.526	--
53	Co-Trustee	HY-15	00031	subtidal	1	33		33.0	1.0	33.0	3.497	--
54	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.7	32.3	3.475	--
55	HCC-1B	4209	4209I	intertidal	2	38	U	19.0	1.7	32.3	3.475	--
56	Co-Trustee	HY-18	00082	subtidal	1	32		32.0	1.0	32.0	3.466	--
57	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.7	31.5	3.448	--
58	Co-Trustee	HY-19		subtidal	1	31.3	M(3)	31.3	1.0	31.3	3.445	--
59	HCC-1A	1101		subtidal	1	36.25	UM(4)	18.1	1.7	30.8	3.428	--
60	HCC-1A	1103	1103S	subtidal	1	36	U	18.0	1.7	30.6	3.421	--
61	HCC-1A	3106	3106S	subtidal	1	18	J	18	1.7	30.6	3.421	--
62	HCC-1B	3212	3212I	intertidal	2	34	U	17.0	1.7	28.9	3.364	--
63	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.7	28.9	3.364	--
64	HCC-1B	4205	4205I	intertidal	3	34	U	17.0	1.7	28.9	3.364	--
65	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
66	HCC-1B	4210	4210I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
67	HCC-1C	1124	1124 S	subtidal	1	16	J	16.0	1.7	27.2	3.303	--
68	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.7	27.2	3.303	--
69	HCC-1B	2214	2214I	intertidal	2	32	U	16.0	1.7	27.2	3.303	--
70	HCC-1C	5215	5215 I	intertidal	2	32	U	16.0	1.7	27.2	3.303	--
71	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.7	26.4	3.271	--
72	HCC-1B	2211	2211I	intertidal	2	31	U	15.5	1.7	26.4	3.271	--
73	HCC-1B	3216	3216I	intertidal	3	31	U	15.5	1.7	26.4	3.271	--
74	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.7	25.5	3.239	--
75	HCC-1B	2212	2212I	intertidal	3	30	U	15.0	1.7	25.5	3.239	--
76	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.7	24.7	3.205	--
77	HCC-1B	2208	2208I	intertidal	2	28	U	14.0	1.7	23.8	3.170	--
78	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.7	23.8	3.170	--
79	HCC-1A	3101	3101S	subtidal	1	14	J	14	1.7	23.8	3.170	--
80	HCC-1B	3210	3210I	intertidal	2	14	J	14	1.7	23.8	3.170	--
81	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.7	23.0	3.133	--
82	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
83	HCC-1B	5202	5202I	intertidal	6	27	U	13.5	1.7	23.0	3.133	--
84	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
85	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.7	23.0	3.133	--
86	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.7	22.1	3.096	--
87	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.7	22.1	3.096	--
88	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.7	21.3	3.056	--
89	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
90	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
91	HCC-1C	4119	4119 S	subtidal	1	12	J	12.0	1.7	20.4	3.016	--
92	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.7	20.4	3.016	--
93	HCC-1A	5111	5111S	subtidal	1	12	J	12	1.7	20.4	3.016	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-20. Sampling data used to map injury footprints for dimethyl phthalate (DMPH) in Hylebos Waterway. Injury threshold =71 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
94	Co-Trustee	HY-22	00156	subtidal	1	19		19.0	1.0	19.0	2.944	--
95	HCC-1A	5112	5112S	subtidal	1	11	J	11	1.7	18.7	2.929	--
96	HCC-1C	1117	1117 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
97	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
98	HCC-1C	1125	1125 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
99	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
100	HCC-1A	2111	2111S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
101	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
102	HCC-1C	2114	2114 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
103	HCC-1B	2210	2210I	intertidal	5	10	J	10	1.7	17.0	2.833	--
104	HCC-1C	3107	3107 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
105	HCC-1C	4117	4117 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
106	HCC-1C	4118	4118 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
107	HCC-1A	5106	5106S	subtidal	1	10	J	10	1.7	17.0	2.833	--
108	HCC-1A	5109	5109S	subtidal	1	10	J	10	1.7	17.0	2.833	--
109	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
110	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
111	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
112	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
113	HCC-1C	2112	2112 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
114	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
115	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
116	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
117	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
118	HCC-1B	4208	4208I	intertidal	3	19	UM(4)	9.5	1.7	16.2	2.782	--
119	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
120	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
121	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
122	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
123	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
124	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
125	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
126	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
127	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
128	HCC-1A	4104	4104S	subtidal	1	9	J	9	1.7	15.3	2.728	--
129	HCC-1A	5104	5104S	subtidal	1	9	J	9	1.7	15.3	2.728	--
130	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
131	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
132	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.7	14.5	2.671	--
133	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
134	HCC-1A	4107	4107S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
135	HCC-1A	5103	5103S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
136	Co-Trustee	HY-07	00352	subtidal	1	14		14.0	1.0	14.0	2.639	--
137	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
138	HCC-1A	5101	5101S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
139	HCC-1A	5102	5102S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
140	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-20. Sampling data used to map injury footprints for dimethyl phthalate (DMPH) in Hylebos Waterway. Injury threshold =71 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
141	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
142	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	--
143	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
144	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
145	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
146	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
147	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
148	Co-Trustee	HY-12	00275	subtidal	1	12		12.0	1.0	12.0	2.485	--
149	HCC-1B	1204	1204I	intertidal	4	7	J	7	1.7	11.9	2.477	--
150	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.7	11.9	2.477	--
151	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
152	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
153	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	--
154	HCC-1A	4109		subtidal	1	13.5	UJM(2)	6.8	1.7	11.5	2.440	--
155	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
156	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
157	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
158	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
159	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
160	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
161	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
162	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
163	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
164	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.7	11.1	2.402	--
165	Co-Trustee	HY-11	00295	subtidal	1	11		11.0	1.0	11.0	2.398	--
166	HCC-1B	3201		intertidal	4	13	UM(4)	6.3	1.7	10.6	2.363	--
167	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
168	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
169	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
170	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
171	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
172	Co-Trustee	HY-09	00348	subtidal	1	9.6		9.6	1.0	9.6	2.262	--
173	Co-Trustee	HY-03	00426	subtidal	1	9.3	M(3)	9.3	1.0	9.3	2.230	--
174	Co-Trustee	HY-05	00380	subtidal	1	8.9		8.9	1.0	8.9	2.186	--
175	HCC-1A	5107		subtidal	1	10	J	5.0	1.7	8.5	2.140	--
176	Co-Trustee	HY-13	00012	subtidal	1	6.9		6.9	1.0	6.9	1.932	--
177	Co-Trustee	HY-14	00020	subtidal	1	6.2		6.2	1.0	6.2	1.825	--
178	Co-Trustee	HY-04	00420	subtidal	1	5.2		5.2	1.0	5.2	1.649	--
179	Co-Trustee	HY-08	00313	subtidal	1	5.2		5.2	1.0	5.2	1.649	--
180	Co-Trustee	HY-06		subtidal	1	4.3	M(3)	4.3	1.0	4.3	1.459	--
181	Co-Trustee	HY-01	00456	subtidal	1	2.4		2.4	1.0	2.4	0.875	--
182	Co-Trustee	HY-02	00443	subtidal	1	2.3		2.3	1.0	2.3	0.833	--
183	Co-Trustee	HY-17	00062	subtidal	1	0.96		1.0	1.0	1.0	0.00**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-21. Data used to map injury footprints for di-n-butyl phthalate (DnBPH) in Hylebos Waterway. Injury threshold =1,400 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	3214	3214I	intertidal	2	3300		3300	1.7	5,610.0	8.632	5%
2	HCC-1A	1101		subtidal	1	580		580	1.7	986.0	6.894	--
3	HCC-1B	2211	2211I	intertidal	2	390	J	390	1.7	663.0	6.497	--
4	HCC-1A	2104	2104S	subtidal	1	160		160	1.7	272.0	5.606	--
5	HCC-1A	4107	4107S	subtidal	1	120		120	1.7	204.0	5.318	--
6	HCC-1C	2115	2115 S	subtidal	1	78		78.0	1.7	132.6	4.887	--
7	HCC-1B	5203	5203I	intertidal	2	72	J	72	1.7	122.4	4.807	--
8	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.7	110.5	4.705	--
9	HCC-1C	5215	5215 I	intertidal	2	65		65.0	1.7	110.5	4.705	--
10	HCC-1A	1102	1102S	subtidal	1	56		56	1.7	95.2	4.556	--
11	HCC-1B	1201		intertidal	2	105.3	UM(4)	52.6	1.7	89.5	4.494	--
12	HCC-1A	1108	1108S	subtidal	1	100	U	50.0	1.7	85.0	4.443	--
13	HCC-1B	4205	4205I	intertidal	3	50	J	50	1.7	85.0	4.443	--
14	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.7	82.5	4.412	--
15	Co-Trustee	HY-24	00191	subtidal	1	79		79.0	1.0	79.0	4.369	--
16	HCC-1B	4201	4201I	intertidal	4	91	U	45.5	1.7	77.4	4.348	--
17	Co-Trustee	HY-05	00380	subtidal	1	76		76.0	1.0	76.0	4.331	--
18	HCC-1B	4208	4208I	intertidal	3	87		43.5	1.7	74.0	4.303	--
19	Co-Trustee	HY-01	00456	subtidal	1	72		72.0	1.0	72.0	4.277	--
20	HCC-1B	2212	2212I	intertidal	3	42	J	42	1.7	71.4	4.268	--
21	HCC-1B	2215	2215I	intertidal	7	39	J	39	1.7	66.3	4.194	--
22	HCC-1A	2106	2106S	subtidal	1	75	U	37.5	1.7	63.8	4.155	--
23	HCC-1B	2210	2210I	intertidal	5	37	J	37	1.7	62.9	4.142	--
24	HCC-1A	3104	3104S	subtidal	1	37		37	1.7	62.9	4.142	--
25	HCC-1B	5202	5202I	intertidal	6	37	J	37	1.7	62.9	4.142	--
26	HCC-1B	5206	5206I	intertidal	2	37	J	37	1.7	62.9	4.142	--
27	HCC-1A	2107	2107S	subtidal	1	36		36	1.7	61.2	4.114	--
28	HCC-1B	2208	2208I	intertidal	2	35	J	35	1.7	59.5	4.086	--
29	HCC-1B	3212	3212I	intertidal	2	35	J	35	1.7	59.5	4.086	--
30	HCC-1B	5205	5205I	intertidal	2	35	J	35	1.7	59.5	4.086	--
31	HCC-1B	1212	1212I	intertidal	2	30	J	30	1.7	51.0	3.932	--
32	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.7	51.0	3.932	--
33	HCC-1C	4118	4118 S	subtidal	1	30		30.0	1.7	51.0	3.932	--
34	HCC-1C	1124	1124 S	subtidal	1	27		27.0	1.7	45.9	3.826	--
35	HCC-1B	1202	1202I	intertidal	4	54	U	27.0	1.7	45.9	3.826	--
36	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.7	44.2	3.789	--
37	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.7	40.0	3.688	--
38	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.7	39.1	3.666	--
39	HCC-1A	2108	2108S	subtidal	1	22	J	22	1.7	37.4	3.622	--
40	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.7	34.0	3.526	--
41	HCC-1B	1216	1216I	intertidal	3	20	J	20	1.7	34.0	3.526	--
42	Co-Trustee	HY-20	00127	subtidal	1	34		34.0	1.0	34.0	3.526	--
43	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.7	32.3	3.475	--
44	HCC-1B	4209	4209I	intertidal	2	38	U	19.0	1.7	32.3	3.475	--
45	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.7	31.5	3.448	--
46	HCC-1A	1112	1112S	subtidal	1	37	U	18.5	1.7	31.5	3.448	--
47	HCC-1A	1103	1103S	subtidal	1	36	U	18.0	1.7	30.6	3.421	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-21. Data used to map injury footprints for di-n-butyl phthalate (DnBPH) in Hylebos Waterway. Injury threshold =1,400 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
48	HCC-1A	1113	1113S	subtidal	1	36	U	18.0	1.7	30.6	3.421	--
49	HCC-1A	3105	3105S	subtidal	1	18	J	18	1.7	30.6	3.421	--
50	Co-Trustee	HY-09	00348	subtidal	1	30		30.0	1.0	30.0	3.401	--
51	Co-Trustee	HY-21	00136	subtidal	1	30		30.0	1.0	30.0	3.401	--
52	HCC-1B	1207	1207I	intertidal	2	17	J	17	1.7	28.9	3.364	--
53	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.7	28.9	3.364	--
54	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
55	HCC-1B	4210	4210I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
56	Co-Trustee	HY-23	00173	subtidal	1	28		28.0	1.0	28.0	3.332	--
57	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.7	27.2	3.303	--
58	HCC-1B	2214	2214I	intertidal	2	32	U	16.0	1.7	27.2	3.303	--
59	HCC-1B	3215	3215I	intertidal	2	32	U	16.0	1.7	27.2	3.303	--
60	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.7	26.4	3.271	--
61	HCC-1B	3216	3216I	intertidal	3	31	U	15.5	1.7	26.4	3.271	--
62	HCC-1B	3219	3219I	intertidal	3	31	U	15.5	1.7	26.4	3.271	--
63	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.7	25.5	3.239	--
64	Co-Trustee	HY-10	00326	subtidal	1	25		25.0	1.0	25.0	3.219	--
65	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.7	24.7	3.205	--
66	Co-Trustee	HY-22	00156	subtidal	1	24		24.0	1.0	24.0	3.178	--
67	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.7	23.8	3.170	--
68	Co-Trustee	HY-03	00426	subtidal	1	23.7	M(3)	23.7	1.0	23.7	3.164	--
69	Co-Trustee	HY-25	00204	subtidal	1	23		23.0	1.0	23.0	3.135	--
70	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.7	23.0	3.133	--
71	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
72	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.7	23.0	3.133	--
73	HCC-1C	1117	1117 S	subtidal	1	26	U	13.0	1.7	22.1	3.096	--
74	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.7	22.1	3.096	--
75	HCC-1A	5109	5109S	subtidal	1	13	J	13	1.7	22.1	3.096	--
76	HCC-1A	5111	5111S	subtidal	1	13	J	13	1.7	22.1	3.096	--
77	HCC-1B	5210		intertidal	2	26	U	13.0	1.7	22.1	3.096	--
78	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.7	22.1	3.096	--
79	Co-Trustee	HY-19		subtidal	1	21.7	M(3)	21.7	1.0	21.7	3.076	--
80	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.7	21.3	3.056	--
81	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
82	Co-Trustee	HY-15	00031	subtidal	1	21		21.0	1.0	21.0	3.045	--
83	Co-Trustee	HY-16	00044	subtidal	1	20.5	M(2)	20.5	1.0	20.5	3.020	--
84	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.7	20.4	3.016	--
85	Co-Trustee	HY-18	00082	subtidal	1	20		20.0	1.0	20.0	2.996	--
86	Co-Trustee	HY-27	00235	subtidal	1	20		20.0	1.0	20.0	2.996	--
87	HCC-1C	1121	1121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
88	HCC-1C	1122	1122 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
89	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
90	HCC-1C	1125	1125 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
91	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
92	HCC-1C	1133	1133 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
93	HCC-1A	2111	2111S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
94	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-21. Data used to map injury footprints for di-n-butyl phthalate (DnBPH) in Hylebos Waterway. Injury threshold =1,400 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
95	HCC-1C	2114	2114 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
96	HCC-1C	3107	3107 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
97	HCC-1C	3108		subtidal	1	20	UM	10.0	1.7	17.0	2.833	--
98	HCC-1C	3110	3110 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
99	HCC-1C	4117	4117 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
100	HCC-1C	4119	4119 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
101	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
102	Co-Trustee	HY-26	00217	subtidal	1	17		17.0	1.0	17.0	2.833	--
103	Co-Trustee	HY-28	00256	subtidal	1	17.0	M(3)	17.0	1.0	17.0	2.833	--
104	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
105	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
106	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
107	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
108	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
109	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
110	HCC-1C	2112	2112 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
111	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
112	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
113	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
114	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
115	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
116	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
117	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
118	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
119	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
120	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
121	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
122	HCC-1A	2101	2101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
123	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
124	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
125	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
126	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
127	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
128	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
129	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
130	HCC-1A	5103	5103S	subtidal	1	9	J	9	1.7	15.3	2.728	--
131	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
132	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
133	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
134	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
135	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.7	14.5	2.671	--
136	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
137	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
138	HCC-1A	5104	5104S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
139	Co-Trustee	HY-04	00420	subtidal	1	14		14.0	1.0	14.0	2.639	--
140	Co-Trustee	HY-11	00295	subtidal	1	14		14.0	1.0	14.0	2.639	--
141	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-21. Data used to map injury footprints for di-n-butyl phthalate (DnBPH) in Hylebos Waterway. Injury threshold =1,400 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
142	HCC-1A	5101	5101S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
143	HCC-1A	5102	5102S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
144	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
145	Co-Trustee	HY-07	00352	subtidal	1	13		13.0	1.0	13.0	2.565	--
146	HCC-1A	4109		subtidal	1	15.25	UM(4)	7.6	1.7	13.0	2.562	--
147	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
148	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	--
149	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
150	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
151	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
152	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
153	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
154	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
155	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.7	11.9	2.477	--
156	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
157	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
158	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	--
159	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
160	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
161	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
162	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
163	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
164	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
165	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
166	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
167	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
168	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
169	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.7	11.1	2.402	--
170	Co-Trustee	HY-12	00275	subtidal	1	11		11.0	1.0	11.0	2.398	--
171	HCC-1B	3201		intertidal	4	13	UM(4)	6.3	1.7	10.6	2.363	--
172	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
173	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
174	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
175	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
176	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
177	Co-Trustee	HY-08	00313	subtidal	1	9.4		9.4	1.0	9.4	2.241	--
178	Co-Trustee	HY-14	00020	subtidal	1	8.5		8.5	1.0	8.5	2.140	--
179	HCC-1A	5107		subtidal	1	9	J	4.5	1.7	7.7	2.035	--
180	Co-Trustee	HY-06		subtidal	1	7.3	M(3)	7.3	1.0	7.3	1.988	--
181	Co-Trustee	HY-02	00443	subtidal	1	6.2		6.2	1.0	6.2	1.825	--
182	Co-Trustee	HY-17	00062	subtidal	1	5.9		5.9	1.0	5.9	1.775	--
183	Co-Trustee	HY-13	00012	subtidal	1	5.5		5.5	1.0	5.5	1.705	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-22. Sampling data used to map injury footprints for butylbenzyl phthalate (BBPH) in Hylebos Waterway. Injury threshold = 63 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	3214	3214I	intertidal	2	19000		19000	1.7	32,300.0	10.383	20%
2	HCC-1B	3216	3216I	intertidal	3	670		670	1.7	1,139.0	7.038	20%
3	HCC-1A	1102	1102S	subtidal	1	620		620	1.7	1,054.0	6.960	20%
4	HCC-1A	4107	4107S	subtidal	1	560	J	560	1.7	952.0	6.859	15%
5	HCC-1C	2115	2115 S	subtidal	1	420	J	420.0	1.7	714.0	6.571	10%
6	Co-Trustee	HY-23	00173	subtidal	1	580		580.0	1.0	580.0	6.363	10%
7	HCC-1B	4209	4209I	intertidal	2	340		340	1.7	578.0	6.360	10%
8	HCC-1B	3215	3215I	intertidal	2	280	J	280	1.7	476.0	6.165	10%
9	HCC-1B	2210	2210I	intertidal	5	270	J	270	1.7	459.0	6.129	10%
10	HCC-1B	2214	2214I	intertidal	2	220		220	1.7	374.0	5.924	10%
11	HCC-1B	2212	2212I	intertidal	3	200	J	200	1.7	340.0	5.829	10%
12	HCC-1B	3212	3212I	intertidal	2	200		200	1.7	340.0	5.829	10%
13	HCC-1A	2108	2108S	subtidal	1	190		190	1.7	323.0	5.778	10%
14	HCC-1C	1117	1117 S	subtidal	1	140		140.0	1.7	238.0	5.472	10%
15	HCC-1A	2106	2106S	subtidal	1	120		120	1.7	204.0	5.318	10%
16	HCC-1B	2209	2209I	intertidal	2	120		120	1.7	204.0	5.318	10%
17	HCC-1A	2107	2107S	subtidal	1	110		110	1.7	187.0	5.231	5%
18	HCC-1A	3102	3102S	subtidal	1	110		110	1.7	187.0	5.231	5%
19	HCC-1A	3103	3103S	subtidal	1	110		110	1.7	187.0	5.231	5%
20	HCC-1B	4205	4205I	intertidal	3	110		110	1.7	187.0	5.231	5%
21	HCC-1A	1101		subtidal	1	102.0	M(2)	102.0	1.7	173.4	5.156	5%
22	HCC-1A	2103	2103S	subtidal	1	100		100	1.7	170.0	5.136	5%
23	HCC-1A	2110	2110S	subtidal	1	98		98	1.7	166.6	5.116	5%
24	HCC-1A	1105	1105S	subtidal	1	92		92	1.7	156.4	5.052	5%
25	HCC-1A	3105	3105S	subtidal	1	90	J	90	1.7	153.0	5.030	5%
26	HCC-1B	4206	4206I	intertidal	3	90		90	1.7	153.0	5.030	5%
27	Co-Trustee	HY-24	00191	subtidal	1	150		150.0	1.0	150.0	5.011	5%
28	HCC-1A	5108	5108S	subtidal	1	86		86	1.7	146.2	4.985	5%
29	HCC-1A	1107	1107S	subtidal	1	81		81	1.7	137.7	4.925	5%
30	HCC-1B	2215	2215I	intertidal	7	81		81	1.7	137.7	4.925	5%
31	HCC-1B	4210	4210I	intertidal	3	80	J	80	1.7	136.0	4.913	5%
32	HCC-1B	1212	1212I	intertidal	2	78	J	78	1.7	132.6	4.887	5%
33	HCC-1A	3101	3101S	subtidal	1	71		71	1.7	120.7	4.793	5%
34	Co-Trustee	HY-20	00127	subtidal	1	120		120.0	1.0	120.0	4.787	5%
35	HCC-1C	2114	2114 S	subtidal	1	70	J	70.0	1.7	119.0	4.779	5%
36	HCC-1B	2213	2213I	intertidal	4	68	J	68	1.7	115.6	4.750	5%
37	Co-Trustee	HY-28	00256	subtidal	1	113.3	M(3)	113.3	1.0	113.3	4.730	5%
38	HCC-1A	4104	4104S	subtidal	1	66	N	66	1.7	112.2	4.720	5%
39	HCC-1B	2205	2205I	intertidal	3	65		65	1.7	110.5	4.705	5%
40	HCC-1B	3210	3210I	intertidal	2	65		65	1.7	110.5	4.705	5%
41	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.7	110.5	4.705	5%
42	HCC-1B	1206	1206I	intertidal	4	64		64	1.7	108.8	4.690	5%
43	HCC-1A	2102	2102S	subtidal	1	64		64	1.7	108.8	4.690	5%
44	HCC-1C	1133	1133 S	subtidal	1	63		63.0	1.7	107.1	4.674	5%
45	HCC-1B	3217	3217I	intertidal	2	63		63	1.7	107.1	4.674	5%
46	HCC-1A	4103	4103S	subtidal	1	62		62	1.7	105.4	4.658	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-22. Sampling data used to map injury footprints for butylbenzyl phthalate (BBPH) in Hylebos Waterway. Injury threshold = 63 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
47	HCC-1A	4105	4105S	subtidal	1	120	U	60.0	1.7	102.0	4.625	5%
48	Co-Trustee	HY-16	00044	subtidal	1	101.5	M(2)	101.5	1.0	101.5	4.620	5%
49	HCC-1A	5115	5115S	subtidal	1	59		59	1.7	100.3	4.608	5%
50	HCC-1A	2105	2105S	subtidal	1	57		57	1.7	96.9	4.574	5%
51	HCC-1C	1121	1121 S	subtidal	1	53	J	53.0	1.7	90.1	4.501	5%
52	HCC-1B	1201		intertidal	2	105.3	UM(4)	52.6	1.7	89.5	4.494	5%
53	HCC-1C	5215	5215 I	intertidal	2	52	J	52.0	1.7	88.4	4.482	5%
54	Co-Trustee	HY-25	00204	subtidal	1	88		88.0	1.0	88.0	4.477	5%
55	HCC-1A	1106	1106S	subtidal	1	50		50	1.7	85.0	4.443	5%
56	HCC-1A	1108	1108S	subtidal	1	100	U	50.0	1.7	85.0	4.443	5%
57	HCC-1A	2101	2101S	subtidal	1	49		49	1.7	83.3	4.422	5%
58	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.7	82.5	4.412	5%
59	Co-Trustee	HY-21	00136	subtidal	1	82		82.0	1.0	82.0	4.407	5%
60	HCC-1A	1103	1103S	subtidal	1	48	N	48	1.7	81.6	4.402	5%
61	HCC-1B	1208	1208I	intertidal	2	47	J	47	1.7	79.9	4.381	5%
62	HCC-1B	3219	3219I	intertidal	3	47		47	1.7	79.9	4.381	5%
63	HCC-1A	2104	2104S	subtidal	1	46		46	1.7	78.2	4.359	5%
64	HCC-1C	3110	3110 S	subtidal	1	46	J	46.0	1.7	78.2	4.359	5%
65	HCC-1B	4201	4201I	intertidal	4	91	U	45.5	1.7	77.4	4.348	5%
66	Co-Trustee	HY-19		subtidal	1	77.3	M(3)	77.3	1.0	77.3	4.348	5%
67	HCC-1A	1111	1111S	subtidal	1	45		45	1.7	76.5	4.337	5%
68	HCC-1B	4208	4208I	intertidal	3	88.5	M(4)	44.3	1.7	75.2	4.320	5%
69	HCC-1C	2112	2112 S	subtidal	1	44		44.0	1.7	74.8	4.315	5%
70	HCC-1A	1113	1113S	subtidal	1	43		43	1.7	73.1	4.292	5%
71	HCC-1A	1112	1112S	subtidal	1	42	N	42	1.7	71.4	4.268	5%
72	HCC-1C	1122	1122 S	subtidal	1	42	J	42.0	1.7	71.4	4.268	5%
73	Co-Trustee	HY-22	00156	subtidal	1	70		70.0	1.0	70.0	4.248	5%
74	Co-Trustee	HY-18	00082	subtidal	1	67		67.0	1.0	67.0	4.205	5%
75	Co-Trustee	HY-27	00235	subtidal	1	67		67.0	1.0	67.0	4.205	5%
76	HCC-1A	5103	5103S	subtidal	1	38	N	38	1.7	64.6	4.168	5%
77	Co-Trustee	HY-15	00031	subtidal	1	63		63.0	1.0	63.0	4.143	--
78	HCC-1A	5112	5112S	subtidal	1	37		37	1.7	62.9	4.142	--
79	HCC-1A	5114	5114S	subtidal	1	37		37	1.7	62.9	4.142	--
80	HCC-1C	1120	1120 S	subtidal	1	36	J	36.0	1.7	61.2	4.114	--
81	HCC-1A	4108	4108S	subtidal	1	36		36	1.7	61.2	4.114	--
82	HCC-1B	2208	2208I	intertidal	2	35	J	35	1.7	59.5	4.086	--
83	HCC-1B	2202	2202I	intertidal	2	33	J	33	1.7	56.1	4.027	--
84	HCC-1A	4109		subtidal	1	65	M(2)	32.5	1.7	55.3	4.012	--
85	Co-Trustee	HY-26	00217	subtidal	1	55		55.0	1.0	55.0	4.007	--
86	HCC-1C	1118	1118 S	subtidal	1	32	J	32.0	1.7	54.4	3.996	--
87	HCC-1B	1216	1216I	intertidal	3	32	J	32	1.7	54.4	3.996	--
88	HCC-1C	4119	4119 S	subtidal	1	32	J	32.0	1.7	54.4	3.996	--
89	HCC-1A	5116	5116S	subtidal	1	32	N	32	1.7	54.4	3.996	--
90	HCC-1A	2111	2111S	subtidal	1	31	N	31	1.7	52.7	3.965	--
91	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.7	51.0	3.932	--
92	HCC-1B	3209	3209I	intertidal	3	30		30	1.7	51.0	3.932	--
93	HCC-1B	2204	2204I	intertidal	4	29		29	1.7	49.3	3.898	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

3/13/02

Table D-22. Sampling data used to map injury footprints for butylbenzyl phthalate (BBPH) in Hylebos Waterway. Injury threshold = 63 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
94	HCC-1A	5106	5106S	subtidal	1	29	N	29	1.7	49.3	3.898	--
95	HCC-1B	5203	5203I	intertidal	2	57	U	28.5	1.7	48.5	3.881	--
96	HCC-1B	1211	1211I	intertidal	2	28	J	28	1.7	47.6	3.863	--
97	HCC-1B	3205	3205I	intertidal	2	28	J	28	1.7	47.6	3.863	--
98	Co-Trustee	HY-10	00326	subtidal	1	46		46.0	1.0	46.0	3.829	--
99	HCC-1B	1202	1202I	intertidal	4	54	U	27.0	1.7	45.9	3.826	--
100	HCC-1C	3107	3107 S	subtidal	1	27		27.0	1.7	45.9	3.826	--
101	HCC-1A	5101	5101S	subtidal	1	27		27	1.7	45.9	3.826	--
102	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.7	44.2	3.789	--
103	HCC-1B	1217	1217I	intertidal	5	25		25	1.7	42.5	3.750	--
104	HCC-1C	3109	3109 S	subtidal	1	25		25.0	1.7	42.5	3.750	--
105	Co-Trustee	HY-03	00426	subtidal	1	42.0	M(3)	42.0	1.0	42.0	3.738	--
106	HCC-1C	4117	4117 S	subtidal	1	24		24.0	1.7	40.8	3.709	--
107	HCC-1C	1125	1125 S	subtidal	1	23		23.0	1.7	39.1	3.666	--
108	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.7	39.1	3.666	--
109	HCC-1A	5111	5111S	subtidal	1	22	N	22	1.7	37.4	3.622	--
110	Co-Trustee	HY-12	00275	subtidal	1	36		36.0	1.0	36.0	3.584	--
111	HCC-1A	5104	5104S	subtidal	1	20	N	20	1.7	34.0	3.526	--
112	HCC-1A	5109	5109S	subtidal	1	20	N	20	1.7	34.0	3.526	--
113	HCC-1B	3201		intertidal	4	39	M(4)	19.5	1.7	33.2	3.501	--
114	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.7	32.3	3.475	--
115	HCC-1A	5110	5110S	subtidal	1	19	J	19	1.7	32.3	3.475	--
116	HCC-1C	5120	5120 S	subtidal	1	19		19.0	1.7	32.3	3.475	--
117	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.7	31.5	3.448	--
118	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.7	28.9	3.364	--
119	HCC-1A	1110	1110S	subtidal	1	33	U	16.5	1.7	28.1	3.334	--
120	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
121	HCC-1B	1213	1213I	intertidal	4	16	J	16	1.7	27.2	3.303	--
122	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.7	27.2	3.303	--
123	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.7	26.4	3.271	--
124	HCC-1B	2211	2211I	intertidal	2	31	U	15.5	1.7	26.4	3.271	--
125	HCC-1C	3108		subtidal	1	29.16667	M	14.6	1.7	24.8	3.211	--
126	HCC-1B	1210	1210I	intertidal	2	14	J	14	1.7	23.8	3.170	--
127	HCC-1B	3207	3207I	intertidal	2	14	J	14	1.7	23.8	3.170	--
128	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.7	23.0	3.133	--
129	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
130	HCC-1B	5202	5202I	intertidal	6	27	U	13.5	1.7	23.0	3.133	--
131	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
132	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.7	23.0	3.133	--
133	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.7	22.1	3.096	--
134	HCC-1A	5102	5102S	subtidal	1	13	J	13	1.7	22.1	3.096	--
135	HCC-1A	5107		subtidal	1	26.00	JM(4)	13.0	1.7	22.1	3.096	--
136	HCC-1B	5210		intertidal	2	26	U	13.0	1.7	22.1	3.096	--
137	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.7	22.1	3.096	--
138	Co-Trustee	HY-09	00348	subtidal	1	22		22.0	1.0	22.0	3.091	--
139	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.7	21.3	3.056	--
140	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-22. Sampling data used to map injury footprints for butylbenzyl phthalate (BBPH) in Hylebos Waterway. Injury threshold = 63 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
141	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
142	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.7	20.4	3.016	--
143	Co-Trustee	HY-04	00420	subtidal	1	20		20.0	1.0	20.0	2.996	--
144	Co-Trustee	HY-11	00295	subtidal	1	20		20.0	1.0	20.0	2.996	--
145	Co-Trustee	HY-14	00020	subtidal	1	19		19.0	1.0	19.0	2.944	--
146	HCC-1C	1123	1123 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
147	HCC-1C	1124	1124 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
148	HCC-1C	1126	1126 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
149	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
150	HCC-1C	4118	4118 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
151	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.7	17.0	2.833	--
152	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
153	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
154	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
155	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
156	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
157	Co-Trustee	HY-05	00380	subtidal	1	15		15.0	1.0	15.0	2.708	--
158	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
159	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
160	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
161	Co-Trustee	HY-08	00313	subtidal	1	13		13.0	1.0	13.0	2.565	--
162	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	--
163	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
164	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
165	Co-Trustee	HY-01	00456	subtidal	1	12		12.0	1.0	12.0	2.485	--
166	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
167	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
168	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
169	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
170	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
171	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
172	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
173	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.7	11.1	2.402	--
174	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
175	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
176	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
177	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.7	10.2	2.322	--
178	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
179	Co-Trustee	HY-06		subtidal	1	8.9	M(3)	8.9	1.0	8.9	2.186	--
180	Co-Trustee	HY-07	00352	subtidal	1	8.8		8.8	1.0	8.8	2.175	--
181	Co-Trustee	HY-02	00443	subtidal	1	8.7		8.7	1.0	8.7	2.163	--
182	Co-Trustee	HY-17	00062	subtidal	1	8.1		8.1	1.0	8.1	2.092	--
183	Co-Trustee	HY-13	00012	subtidal	1	5.1		5.1	1.0	5.1	1.629	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-23 Sampling data used to map injury footprints for Di-n-octyl phthalate (DOPH) in Hylebos Waterway. Injury threshold =61 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	2211	2211I	intertidal	2	510	J	510	1.7	867.0	6.765	5%
2	HCC-1A	4107	4107S	subtidal	1	430		430	1.7	731.0	6.594	5%
3	HCC-1C	1117	1117 S	subtidal	1	70	N	70	1.7	119.0	4.779	5%
4	HCC-1B	3213	3213I	intertidal	2	130	U	65	1.7	110.5	4.705	5%
5	HCC-1B	2209	2209I	intertidal	2	63		63	1.7	107.1	4.674	5%
6	HCC-1B	1201		intertidal	2	105	UM(4)	53	1.7	89.5	4.494	5%
7	HCC-1B	2210	2210I	intertidal	5	49	J	49	1.7	83.3	4.422	5%
8	HCC-1B	3214	3214I	intertidal	2	96	U	48	1.7	81.6	4.402	5%
9	HCC-1C	1125	1125 S	subtidal	1	47	N	47	1.7	79.9	4.381	5%
10	HCC-1B	4206	4206I	intertidal	3	47		47	1.7	79.9	4.381	5%
11	HCC-1B	4201	4201I	intertidal	4	91	U	46	1.7	77.4	4.348	5%
12	HCC-1A	2106	2106S	subtidal	1	75	U	38	1.7	63.8	4.155	5%
13	HCC-1A	2109	2109S	subtidal	1	60	U	30	1.7	51.0	3.932	--
14	HCC-1C	1122	1122 S	subtidal	1	29		29	1.7	49.3	3.898	--
15	HCC-1B	5203	5203I	intertidal	2	57	U	29	1.7	48.5	3.881	--
16	HCC-1B	1202	1202I	intertidal	4	54	U	27	1.7	45.9	3.826	--
17	HCC-1B	5202	5202I	intertidal	6	52	U	26	1.7	44.2	3.789	--
18	HCC-1B	5211	5211I	intertidal	2	52	U	26	1.7	44.2	3.789	--
19	HCC-1A	4106	4106S	subtidal	1	51	U	26	1.7	43.4	3.769	--
20	HCC-1A	1104	1104S	subtidal	1	97	U	24	1.7	40.0	3.688	--
21	HCC-1B	1208	1208I	intertidal	2	47	U	24	1.7	40.0	3.688	--
22	HCC-1A	1101		subtidal	1	47	UM(4)	23	1.7	39.7	3.682	--
23	HCC-1B	5208	5208I	intertidal	2	46	U	23	1.7	39.1	3.666	--
24	HCC-1B	2214	2214I	intertidal	2	44	U	22	1.7	37.4	3.622	--
25	HCC-1C	1118	1118 S	subtidal	1	38	U	19	1.7	32.3	3.475	--
26	HCC-1A	2107	2107S	subtidal	1	38	U	19	1.7	32.3	3.475	--
27	HCC-1B	4209	4209I	intertidal	2	38	U	19	1.7	32.3	3.475	--
28	HCC-1C	3109	3109 S	subtidal	1	36	U	18	1.7	30.6	3.421	--
29	HCC-1B	3212	3212I	intertidal	2	34	U	17	1.7	28.9	3.364	--
30	HCC-1A	4115	4115S	subtidal	1	34	U	17	1.7	28.9	3.364	--
31	HCC-1B	4205	4205I	intertidal	3	34	U	17	1.7	28.9	3.364	--
32	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
33	HCC-1B	4210	4210I	intertidal	3	33	U	16.5	1.7	28.1	3.334	--
34	HCC-1B	2206	2206I	intertidal	6	32	U	16	1.7	27.2	3.303	--
35	HCC-1B	3215	3215I	intertidal	2	32	U	16	1.7	27.2	3.303	--
36	HCC-1C	5215	5215 I	intertidal	2	32	U	16	1.7	27.2	3.303	--
37	HCC-1C	1120	1120 S	subtidal	1	31	U	15.5	1.7	26.4	3.271	--
38	HCC-1B	1203	1203I	intertidal	7	31	U	15.5	1.7	26.4	3.271	--
39	HCC-1B	2215	2215I	intertidal	7	31	U	15.5	1.7	26.4	3.271	--
40	HCC-1B	3216	3216I	intertidal	3	31	U	15.5	1.7	26.4	3.271	--
41	HCC-1B	3219	3219I	intertidal	3	31	U	15.5	1.7	26.4	3.271	--
42	HCC-1B	2205	2205I	intertidal	3	30	U	15	1.7	25.5	3.239	--
43	HCC-1B	2212	2212I	intertidal	3	30	U	15	1.7	25.5	3.239	--
44	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.7	24.7	3.205	--
45	HCC-1B	2208	2208I	intertidal	2	28	U	14	1.7	23.8	3.170	--
46	HCC-1A	1110	1110S	subtidal	1	17	U	13.5	1.7	23.0	3.133	--
47	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.7	23.0	3.133	--
48	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
49	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.7	23.0	3.133	--
50	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.7	23.0	3.133	--
51	HCC-1B	4203	4203I	intertidal	2	26	U	13	1.7	22.1	3.096	--
52	HCC-1B	5212	5212I	intertidal	6	26	U	13	1.7	22.1	3.096	--
53	HCC-1B	5210	5210SM	intertidal	2	26	U	13	1.7	22.1	3.096	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-23 Sampling data used to map injury footprints for Di-n-octyl phthalate (DOPH) in Hylebos Waterway. Injury threshold =61 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
54	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.7	21.3	3.056	--
55	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
56	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
57	HCC-1C	2112	2112 S	subtidal	1	24	U	12	1.7	20.4	3.016	--
58	HCC-1B	4204	4204I	intertidal	4	24	U	12	1.7	20.4	3.016	--
59	HCC-1C	1121	1121 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
60	HCC-1C	1123	1123 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
61	HCC-1C	1124	1124 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
62	HCC-1C	1126	1126 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
63	HCC-1C	1133	1133 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
64	HCC-1A	2104	2104S	subtidal	1	20	U	10	1.7	17.0	2.833	--
65	HCC-1A	2111	2111S	subtidal	1	20	U	10	1.7	17.0	2.833	--
66	HCC-1C	2113	2113 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
67	HCC-1C	2114	2114 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
68	HCC-1C	2115	2115 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
69	HCC-1C	3107	3107 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
70	HCC-1C	3108		subtidal	1	20	UM	10	1.7	17.0	2.833	--
71	HCC-1C	3110	3110 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
72	HCC-1C	4117	4117 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
73	HCC-1C	4118	4118 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
74	HCC-1C	4119	4119 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
75	HCC-1C	5121	5121 S	subtidal	1	20	U	10	1.7	17.0	2.833	--
76	HCC-1C	1119	1119 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
77	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
78	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
79	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
80	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
81	HCC-1B	4208	4208I	intertidal	3	19	UM(4)	9.5	1.7	16.2	2.782	--
82	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
83	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
84	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
85	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
86	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
87	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
88	HCC-1A	2101	2101S	subtidal	1	18	U	9	1.7	15.3	2.728	--
89	HCC-1A	2102	2102S	subtidal	1	18	U	9	1.7	15.3	2.728	--
90	HCC-1A	2110	2110S	subtidal	1	18	U	9	1.7	15.3	2.728	--
91	HCC-1A	3101	3101S	subtidal	1	18	U	9	1.7	15.3	2.728	--
92	HCC-1A	3102	3102S	subtidal	1	18	U	9	1.7	15.3	2.728	--
93	HCC-1A	3104	3104S	subtidal	1	18	U	9	1.7	15.3	2.728	--
94	HCC-1A	3105	3105S	subtidal	1	18	U	9	1.7	15.3	2.728	--
95	HCC-1A	3106	3106S	subtidal	1	18	U	9	1.7	15.3	2.728	--
96	HCC-1A	4103	4103S	subtidal	1	18	U	9	1.7	15.3	2.728	--
97	HCC-1A	4104	4104S	subtidal	1	18	U	9	1.7	15.3	2.728	--
98	HCC-1A	5106	5106S	subtidal	1	18	U	9	1.7	15.3	2.728	--
99	HCC-1A	5108	5108S	subtidal	1	18	U	9	1.7	15.3	2.728	--
100	HCC-1A	1103	1103S	subtidal	1	36	U	8.5	1.7	14.5	2.671	--
101	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
102	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
103	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.7	14.5	2.671	--
104	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
105	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
106	HCC-1A	5103	5103S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-23 Sampling data used to map injury footprints for Di-n-octyl phthalate (DOPH) in Hylebos Waterway. Injury threshold =61 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
107	HCC-1A	5104	5104S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
108	HCC-1A	5107		subtidal	1	17	UM(4)	8.5	1.7	14.5	2.671	--
109	Co-Trustee	HY-03	00426	subtidal	1	14	M(3)	14	1.0	14.0	2.639	--
110	Co-Trustee	HY-10	00326	subtidal	1	14		14	1.0	14.0	2.639	--
111	Co-Trustee	HY-23	00173	subtidal	1	14		14	1.0	14.0	2.639	--
112	HCC-1A	3103	3103S	subtidal	1	16	U	8	1.7	13.6	2.610	--
113	HCC-1A	5101	5101S	subtidal	1	16	U	8	1.7	13.6	2.610	--
114	HCC-1A	5102	5102S	subtidal	1	16	U	8	1.7	13.6	2.610	--
115	HCC-1A	5105	5105S	subtidal	1	16	U	8	1.7	13.6	2.610	--
116	Co-Trustee	HY-27	00235	subtidal	1	13		13	1.0	13.0	2.565	--
117	HCC-1A	4109		subtidal	1	15	UM(4)	7.6	1.7	13.0	2.562	--
118	HCC-1A	1102	1102S	subtidal	1	32	U	7.5	1.7	12.8	2.546	--
119	HCC-1A	1105	1105S	subtidal	1	40	U	7.5	1.7	12.8	2.546	--
120	HCC-1A	1107	1107S	subtidal	1	19	U	7.5	1.7	12.8	2.546	--
121	HCC-1A	1109	1109S	subtidal	1	37	U	7.5	1.7	12.8	2.546	--
122	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
123	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	--
124	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
125	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
126	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
127	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
128	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
129	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
130	Co-Trustee	HY-24	00191	subtidal	1	12		12	1.0	12.0	2.485	--
131	Co-Trustee	HY-25	00204	subtidal	1	12		12	1.0	12.0	2.485	--
132	HCC-1A	1106	1106S	subtidal	1	18	U	7	1.7	11.9	2.477	--
133	HCC-1A	1108	1108S	subtidal	1	100	U	7	1.7	11.9	2.477	--
134	HCC-1A	1112	1112S	subtidal	1	37	U	7	1.7	11.9	2.477	--
135	HCC-1B	1210	1210I	intertidal	2	14	U	7	1.7	11.9	2.477	--
136	HCC-1B	1212	1212I	intertidal	2	14	U	7	1.7	11.9	2.477	--
137	HCC-1B	1216	1216I	intertidal	3	14	U	7	1.7	11.9	2.477	--
138	HCC-1A	2108	2108S	subtidal	1	14	U	7	1.7	11.9	2.477	--
139	HCC-1B	2204	2204I	intertidal	4	14	U	7	1.7	11.9	2.477	--
140	HCC-1B	3211	3211I	intertidal	4	14	U	7	1.7	11.9	2.477	--
141	HCC-1A	4108	4108S	subtidal	1	14	U	7	1.7	11.9	2.477	--
142	HCC-1A	5111	5111S	subtidal	1	14	U	7	1.7	11.9	2.477	--
143	HCC-1A	1111	1111S	subtidal	1	21	U	6.5	1.7	11.1	2.402	--
144	HCC-1A	1113	1113S	subtidal	1	36	U	6.5	1.7	11.1	2.402	--
145	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
146	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
147	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
148	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
149	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
150	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
151	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
152	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
153	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
154	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.7	11.1	2.402	--
155	Co-Trustee	HY-12	00275	subtidal	1	11		11	1.0	11.0	2.398	--
156	Co-Trustee	HY-28	00256	subtidal	1	11	M(3)	11	1.0	11.0	2.398	--
157	HCC-1B	3201		intertidal	4	13	UM(4)	6	1.7	10.6	2.363	--
158	HCC-1B	3206	3206I	intertidal	3	12	U	6	1.7	10.2	2.322	--
159	HCC-1B	3221	3221I	intertidal	3	12	U	6	1.7	10.2	2.322	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-23 Sampling data used to map injury footprints for Di-n-octyl phthalate (DOPH) in Hylebos Waterway. Injury threshold =61 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
160	HCC-1A	4110	4110S	subtidal	1	12	U	6	1.7	10.2	2.322	--
161	HCC-1A	4111	4111S	subtidal	1	12	U	6	1.7	10.2	2.322	--
162	HCC-1B	4207	4207I	intertidal	3	12	U	6	1.7	10.2	2.322	--
163	HCC-1A	5109	5109S	subtidal	1	12	U	6	1.7	10.2	2.322	--
164	Co-Trustee	HY-09	00348	subtidal	1	10		10	1.0	9.9	2.293	--
165	Co-Trustee	HY-19		subtidal	1	9	M(3)	9	1.0	9.4	2.244	--
166	Co-Trustee	HY-15	00031	subtidal	1	9		9	1.0	8.7	2.163	--
167	Co-Trustee	HY-18	00082	subtidal	1	8		8	1.0	8.2	2.104	--
168	Co-Trustee	HY-22	00156	subtidal	1	8		8	1.0	7.9	2.067	--
169	Co-Trustee	HY-06		subtidal	1	8	M(3)	8	1.0	7.8	2.049	--
170	Co-Trustee	HY-04	00420	subtidal	1	8		8	1.0	7.7	2.041	--
171	Co-Trustee	HY-11	00295	subtidal	1	8		8	1.0	7.7	2.041	--
172	Co-Trustee	HY-20	00127	subtidal	1	8		8	1.0	7.6	2.028	--
173	Co-Trustee	HY-26	00217	subtidal	1	6		6	1.0	6.4	1.856	--
174	Co-Trustee	HY-16	00044	subtidal	1	6	M	6	1.0	6.4	1.848	--
175	Co-Trustee	HY-08	00313	subtidal	1	6		6	1.0	5.8	1.758	--
176	Co-Trustee	HY-21	00136	subtidal	1	6		6	1.0	5.8	1.758	--
177	Co-Trustee	HY-07	00352	subtidal	1	5		5	1.0	5.4	1.686	--
178	Co-Trustee	HY-05	00380	subtidal	1	5		5	1.0	5.3	1.668	--
179	Co-Trustee	HY-14	00020	subtidal	1	4		4	1.0	4.0	1.386	--
180	Co-Trustee	HY-02	00443	subtidal	1	3		3	1.0	3.3	1.194	--
181	Co-Trustee	HY-01	00456	subtidal	1	3		3	1.0	3.0	1.099	--
182	Co-Trustee	HY-13	00012	subtidal	1	3		3	1.0	2.7	0.993	--
183	Co-Trustee	HY-17	00062	subtidal	1	2		2	1.0	1.9	0.642	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-24. Sampling data used to map injury footprints for 4-methy phenol (MP4) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1C	3107	3107 S	subtidal	1	370		370.0	1.0	370.0	5.914	5%
2	HCC-1B	1202	1202I	intertidal	4	120		120	1.0	120.0	4.787	5%
3	Co-Trustee	HY-08	00313	subtidal	1	120		120.0	1.0	120.0	4.787	5%
4	HCC-1A	3104	3104S	subtidal	1	73		73	1.0	73.0	4.290	--
5	Co-Trustee	HY-24	00191	subtidal	1	72		72.0	1.0	72.0	4.277	--
6	HCC-1A	4105	4105S	subtidal	1	68	N	68	1.0	68.0	4.220	--
7	HCC-1C	1126	1126 S	subtidal	1	65		65.0	1.0	65.0	4.174	--
8	HCC-1B	3213	3213I	intertidal	2	130	U	65.0	1.0	65.0	4.174	--
9	HCC-1C	1117	1117 S	subtidal	1	64		64.0	1.0	64.0	4.159	--
10	HCC-1C	2114	2114 S	subtidal	1	63		63.0	1.0	63.0	4.143	--
11	HCC-1B	2211	2211I	intertidal	2	57	J	57	1.0	57.0	4.043	--
12	HCC-1B	5202	5202I	intertidal	6	54		54	1.0	54.0	3.989	--
13	Co-Trustee	HY-25	00204	subtidal	1	53		53.0	1.0	53.0	3.970	--
14	Co-Trustee	HY-26	00217	subtidal	1	53		53.0	1.0	53.0	3.970	--
15	HCC-1B	1201		intertidal	2	105	UM(4)	52.6	1.0	52.6	3.963	--
16	HCC-1A	1108	1108S	subtidal	1	100	U	50.0	1.0	50.0	3.912	--
17	HCC-1B	3216	3216I	intertidal	3	50		50	1.0	50.0	3.912	--
18	Co-Trustee	HY-28	00256	subtidal	1	49.0	M(3)	49.0	1.0	49.0	3.892	--
19	HCC-1A	1104	1104S	subtidal	1	97	U	48.5	1.0	48.5	3.882	--
20	HCC-1A	2101	2101S	subtidal	1	48	N	48	1.0	48.0	3.871	--
21	HCC-1B	3214	3214I	intertidal	2	96	U	48.0	1.0	48.0	3.871	--
22	HCC-1A	4107	4107S	subtidal	1	48	N	48	1.0	48.0	3.871	--
23	HCC-1B	3201		intertidal	4	95		47.5	1.0	47.5	3.861	--
24	HCC-1C	1121	1121 S	subtidal	1	47		47.0	1.0	47.0	3.850	--
25	HCC-1C	1123	1123 S	subtidal	1	46		46.0	1.0	46.0	3.829	--
26	HCC-1B	4201	4201I	intertidal	4	91	U	45.5	1.0	45.5	3.818	--
27	Co-Trustee	HY-23	00173	subtidal	1	44		44.0	1.0	44.0	3.784	--
28	Co-Trustee	HY-15	00031	subtidal	1	43		43.0	1.0	43.0	3.761	--
29	Co-Trustee	HY-19		subtidal	1	42.3	M(3)	42.3	1.0	42.3	3.746	--
30	HCC-1C	1119	1119 S	subtidal	1	42		42.0	1.0	42.0	3.738	--
31	Co-Trustee	HY-16	00044	subtidal	1	42.0	M(2)	42.0	1.0	42.0	3.738	--
32	Co-Trustee	HY-21	00136	subtidal	1	42		42.0	1.0	42.0	3.738	--
33	HCC-1C	4117	4117 S	subtidal	1	40		40.0	1.0	40.0	3.689	--
34	Co-Trustee	HY-09	00348	subtidal	1	40		40.0	1.0	40.0	3.689	--
35	Co-Trustee	HY-20	00127	subtidal	1	40		40.0	1.0	40.0	3.689	--
36	HCC-1A	4109		subtidal	1	79	J(2)	39.3	1.0	39.3	3.670	--
37	HCC-1A	2111	2111S	subtidal	1	38		38	1.0	38.0	3.638	--
38	Co-Trustee	HY-10	00326	subtidal	1	38		38.0	1.0	38.0	3.638	--
39	HCC-1A	2106	2106S	subtidal	1	75	U	37.5	1.0	37.5	3.624	--
40	Co-Trustee	HY-13	00012	subtidal	1	37		37.0	1.0	37.0	3.611	--
41	Co-Trustee	HY-03	00426	subtidal	1	36.3	M(3)	36.3	1.0	36.3	3.593	--
42	HCC-1A	1110	1110S	subtidal	1	36		36	1.0	36.0	3.584	--
43	HCC-1C	1125	1125 S	subtidal	1	36		36.0	1.0	36.0	3.584	--
44	HCC-1B	3215	3215I	intertidal	2	36	J	36	1.0	36.0	3.584	--
45	Co-Trustee	HY-27	00235	subtidal	1	36		36.0	1.0	36.0	3.584	--
46	HCC-1B	1211	1211I	intertidal	2	34		34	1.0	34.0	3.526	--
47	Co-Trustee	HY-12	00275	subtidal	1	34		34.0	1.0	34.0	3.526	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-24. Sampling data used to map injury footprints for 4-methy phenol (MP4) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
48	HCC-1B	1203	1203I	intertidal	7	33	N	33	1.0	33.0	3.497	--
49	Co-Trustee	HY-18	00082	subtidal	1	32		32.0	1.0	32.0	3.466	--
50	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.0	30.0	3.401	--
51	HCC-1B	5203	5203I	intertidal	2	57	U	28.5	1.0	28.5	3.350	--
52	Co-Trustee	HY-06		subtidal	1	27.3	M(3)	27.3	1.0	27.3	3.308	--
53	Co-Trustee	HY-04	00420	subtidal	1	27		27.0	1.0	27.0	3.296	--
54	Co-Trustee	HY-11	00295	subtidal	1	27		27.0	1.0	27.0	3.296	--
55	HCC-1B	2204	2204I	intertidal	4	26	J	26	1.0	26.0	3.258	--
56	HCC-1B	5211	5211I	intertidal	2	52	U	26.0	1.0	26.0	3.258	--
57	Co-Trustee	HY-01	00456	subtidal	1	26		26.0	1.0	26.0	3.258	--
58	Co-Trustee	HY-05	00380	subtidal	1	26		26.0	1.0	26.0	3.258	--
59	HCC-1C	5215	5215 I	intertidal	2	24	J	24.0	1.0	24.0	3.178	--
60	Co-Trustee	HY-14	00020	subtidal	1	24		24.0	1.0	24.0	3.178	--
61	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	1.0	23.5	3.157	--
62	HCC-1C	1118	1118 S	subtidal	1	23		23.0	1.0	23.0	3.135	--
63	HCC-1C	4120	4120 S	subtidal	1	23		23.0	1.0	23.0	3.135	--
64	HCC-1B	5208	5208I	intertidal	2	46	U	23.0	1.0	23.0	3.135	--
65	Co-Trustee	HY-02	00443	subtidal	1	23		23.0	1.0	23.0	3.135	--
66	HCC-1A	5101	5101S	subtidal	1	22	J	22	1.0	22.0	3.091	--
67	Co-Trustee	HY-22	00156	subtidal	1	22		22.0	1.0	22.0	3.091	--
68	HCC-1C	3109	3109 S	subtidal	1	21		21.0	1.0	21.0	3.045	--
69	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.0	20.0	2.996	--
70	HCC-1C	1122	1122 S	subtidal	1	20		20.0	1.0	20.0	2.996	--
71	HCC-1B	1212	1212I	intertidal	2	20	J	20	1.0	20.0	2.996	--
72	Co-Trustee	HY-07	00352	subtidal	1	20		20.0	1.0	20.0	2.996	--
73	HCC-1A	4106	4106S	subtidal	1	38	U	19.0	1.0	19.0	2.944	--
74	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	1.0	18.5	2.918	--
75	HCC-1A	1112	1112S	subtidal	1	37	U	18.5	1.0	18.5	2.918	--
76	HCC-1A	1103	1103S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
77	HCC-1A	1113	1113S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
78	HCC-1C	4116	4116 S	subtidal	1	18	J	18.0	1.0	18.0	2.890	--
79	HCC-1A	1101		subtidal	1	35.5	UM(4)	17.8	1.0	17.8	2.876	--
80	HCC-1B	3212	3212I	intertidal	2	34	U	17.0	1.0	17.0	2.833	--
81	HCC-1A	4115	4115S	subtidal	1	34	U	17.0	1.0	17.0	2.833	--
82	HCC-1B	4205	4205I	intertidal	3	34	U	17.0	1.0	17.0	2.833	--
83	HCC-1B	4210	4210I	intertidal	3	17		17	1.0	17.0	2.833	--
84	HCC-1B	3204	3204I	intertidal	3	33	U	16.5	1.0	16.5	2.803	--
85	HCC-1B	2206	2206I	intertidal	6	32	U	16.0	1.0	16.0	2.773	--
86	HCC-1B	2214	2214I	intertidal	2	32	U	16.0	1.0	16.0	2.773	--
87	HCC-1B	3207	3207I	intertidal	2	16	J	16	1.0	16.0	2.773	--
88	Co-Trustee	HY-17	00062	subtidal	1	16		16.0	1.0	16.0	2.773	--
89	HCC-1B	2215	2215I	intertidal	7	31	U	15.5	1.0	15.5	2.741	--
90	HCC-1B	3219	3219I	intertidal	3	31	U	15.5	1.0	15.5	2.741	--
91	HCC-1B	5210	5210SM	intertidal	2	30	U	15.0	1.0	15.0	2.708	--
92	HCC-1B	2205	2205I	intertidal	3	30	U	15.0	1.0	15.0	2.708	--
93	HCC-1B	2212	2212I	intertidal	3	30	U	15.0	1.0	15.0	2.708	--
94	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	1.0	14.5	2.674	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-24. Sampling data used to map injury footprints for 4-methy phenol (MP4) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
95	HCC-1B	2208	2208I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
96	HCC-1B	2209	2209I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
97	HCC-1C	4118	4118 S	subtidal	1	14	J	14.0	1.0	14.0	2.639	--
98	HCC-1B	4208	4208I	intertidal	3	28	JM(2)	14.0	1.0	14.0	2.639	--
99	HCC-1A	5111	5111S	subtidal	1	14	J	14	1.0	14.0	2.639	--
100	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	1.0	13.5	2.603	--
101	HCC-1B	3203	3203I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
102	HCC-1B	5206	5206I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
103	HCC-1B	5209	5209I	intertidal	5	27	U	13.5	1.0	13.5	2.603	--
104	HCC-1B	4203	4203I	intertidal	2	26	U	13.0	1.0	13.0	2.565	--
105	HCC-1A	5115	5115S	subtidal	1	26	U	13.0	1.0	13.0	2.565	--
106	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.0	13.0	2.565	--
107	HCC-1B	4202	4202I	intertidal	3	25	U	12.5	1.0	12.5	2.526	--
108	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
109	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
110	HCC-1B	4204	4204I	intertidal	4	24	U	12.0	1.0	12.0	2.485	--
111	HCC-1A	5102	5102S	subtidal	1	12	J	12	1.0	12.0	2.485	--
112	HCC-1A	5103	5103S	subtidal	1	11	J	11	1.0	11.0	2.398	--
113	HCC-1A	5109	5109S	subtidal	1	11	J	11	1.0	11.0	2.398	--
114	HCC-1C	1124	1124 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
115	HCC-1A	2104	2104S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
116	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
117	HCC-1C	2115	2115 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
118	HCC-1C	3108		subtidal	1	20	UM	10.0	1.0	10.0	2.303	--
119	HCC-1C	3110	3110 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
120	HCC-1C	4119	4119 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
121	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
122	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
123	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
124	HCC-1C	1120	1120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
125	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
126	HCC-1C	2112	2112 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
127	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
128	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
129	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
130	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
131	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
132	HCC-1A	1102	1102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
133	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
134	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
135	HCC-1A	2107	2107S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
136	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
137	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
138	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
139	HCC-1A	3105	3105S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
140	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
141	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-24. Sampling data used to map injury footprints for 4-methy phenol (MP4) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
142	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
143	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
144	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
145	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.0	8.5	2.140	--
146	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
147	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.0	8.5	2.140	--
148	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.0	8.5	2.140	--
149	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
150	HCC-1A	5104	5104S	subtidal	1	17	U	8.5	1.0	8.5	2.140	--
151	HCC-1A	5107		subtidal	1	17	U	8.5	1.0	8.5	2.140	--
152	HCC-1B	4209	4209I	intertidal	2	8.3		8.3	1.0	8.3	2.116	--
153	HCC-1C	1133	1133 S	subtidal	1	8	J	8.0	1.0	8.0	2.079	--
154	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
155	HCC-1A	5105	5105S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
156	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.0	7.5	2.015	--
157	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.0	7.5	2.015	--
158	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.0	7.5	2.015	--
159	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
160	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.0	7.5	2.015	--
161	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
162	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
163	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.0	7.0	1.946	--
164	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.0	7.0	1.946	--
165	HCC-1A	2108	2108S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
166	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.0	7.0	1.946	--
167	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
168	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
169	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
170	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.0	6.5	1.872	--
171	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
172	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.0	6.5	1.872	--
173	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
174	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.0	6.5	1.872	--
175	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	1.0	6.5	1.872	--
176	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
177	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.0	6.5	1.872	--
178	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	1.0	6.5	1.872	--
179	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
180	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--
181	HCC-1A	4110	4110S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
182	HCC-1A	4111	4111S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
183	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.0	6.0	1.792	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-25. Sampling data used to map injury footprints for Pentachlorophenol (PCP) in Hylebos Waterway. Injury threshold = 12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	Co-Trustee	HY-09	00348	subtidal	1	790		790.0	1.0	790.0	6.672	20%
2	HCC-1B	5210	5210SM	intertidal	2	700		700.0	1.0	700.0	6.551	20%
3	HCC-1B	1201		intertidal	2	532.5	UM(4)	266.3	1.0	266.3	5.584	5%
4	HCC-1B	5209	5209I	intertidal	5	260		260.0	1.0	260.0	5.561	5%
5	HCC-1B	1212	1212I	intertidal	2	230	J	230.0	1.0	230.0	5.438	5%
6	HCC-1B	5207	5207I	intertidal	2	180		180.0	1.0	180.0	5.193	5%
7	Co-Trustee	HY-10	00326	subtidal	1	180		180.0	1.0	180.0	5.193	5%
8	HCC-1B	3213	3213I	intertidal	2	330	U	165.0	1.0	165.0	5.106	5%
9	Co-Trustee	HY-12	00275	subtidal	1	150		150.0	1.0	150.0	5.011	5%
10	HCC-1B	5203	5203I	intertidal	2	280	U	140.0	1.0	140.0	4.942	5%
11	HCC-1B	1202	1202I	intertidal	4	270	U	135.0	1.0	135.0	4.905	5%
12	HCC-1B	5211	5211I	intertidal	2	260	U	130.0	1.0	130.0	4.868	5%
13	HCC-1B	3214	3214I	intertidal	2	240	U	120.0	1.0	120.0	4.787	5%
14	HCC-1B	4201	4201I	intertidal	4	230	U	115.0	1.0	115.0	4.745	5%
15	HCC-1B	5208	5208I	intertidal	2	230	U	115.0	1.0	115.0	4.745	5%
16	HCC-1A	1108	1108S	subtidal	1	210	U	105.0	1.0	105.0	4.654	5%
17	HCC-1A	1104	1104S	subtidal	1	190	U	95.0	1.0	95.0	4.554	5%
18	HCC-1B	4209	4209I	intertidal	2	190	U	95.0	1.0	95.0	4.554	5%
19	Co-Trustee	HY-26	00217	subtidal	1	93		93.0	1.0	93.0	4.533	5%
20	Co-Trustee	HY-21	00136	subtidal	1	91		91.0	1.0	91.0	4.511	5%
21	HCC-1A	1101		subtidal	1	177.5	UM(4)	88.8	1.0	88.8	4.486	5%
22	HCC-1B	4205	4205I	intertidal	3	170	U	85.0	1.0	85.0	4.443	5%
23	HCC-1B	2206	2206I	intertidal	6	160	U	80.0	1.0	80.0	4.382	5%
24	HCC-1B	2211	2211I	intertidal	2	160	U	80.0	1.0	80.0	4.382	5%
25	HCC-1B	2214	2214I	intertidal	2	160	U	80.0	1.0	80.0	4.382	5%
26	HCC-1B	2215	2215I	intertidal	7	160	U	80.0	1.0	80.0	4.382	5%
27	HCC-1B	1203	1203I	intertidal	7	150	U	75.0	1.0	75.0	4.317	5%
28	HCC-1A	2106	2106S	subtidal	1	150	U	75.0	1.0	75.0	4.317	5%
29	HCC-1A	2109	2109S	subtidal	1	150	U	75.0	1.0	75.0	4.317	5%
30	HCC-1B	2205	2205I	intertidal	3	150	U	75.0	1.0	75.0	4.317	5%
31	HCC-1B	2212	2212I	intertidal	3	150	U	75.0	1.0	75.0	4.317	5%
32	HCC-1B	3219	3219I	intertidal	3	150	U	75.0	1.0	75.0	4.317	5%
33	Co-Trustee	HY-20	00127	subtidal	1	75		75.0	1.0	75.0	4.317	5%
34	Co-Trustee	HY-25	00204	subtidal	1	74		74.0	1.0	74.0	4.304	5%
35	Co-Trustee	HY-16	00044	subtidal	1	73.5	M(2)	73.5	1.0	73.5	4.297	5%
36	Co-Trustee	HY-19		subtidal	1	70.3	M(3)	70.3	1.0	70.3	4.253	5%
37	HCC-1B	2202	2202I	intertidal	2	140	U	70.0	1.0	70.0	4.248	5%
38	HCC-1B	2208	2208I	intertidal	2	140	U	70.0	1.0	70.0	4.248	5%
39	HCC-1B	2209	2209I	intertidal	2	140	U	70.0	1.0	70.0	4.248	5%
40	Co-Trustee	HY-18	00082	subtidal	1	69		69.0	1.0	69.0	4.234	5%
41	HCC-1B	5206	5206I	intertidal	2	66	J	66.0	1.0	66.0	4.190	5%
42	HCC-1A	5108	5108S	subtidal	1	130	U	65.0	1.0	65.0	4.174	5%
43	HCC-1A	5114	5114S	subtidal	1	130	U	65.0	1.0	65.0	4.174	5%
44	HCC-1B	5202	5202I	intertidal	6	130	U	65.0	1.0	65.0	4.174	5%
45	HCC-1B	5212	5212I	intertidal	6	130	U	65.0	1.0	65.0	4.174	5%
46	Co-Trustee	HY-11	00295	subtidal	1	64		64.0	1.0	64.0	4.159	5%
47	HCC-1B	1208	1208I	intertidal	2	120	U	60.0	1.0	60.0	4.094	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-25. Sampling data used to map injury footprints for Pentachlorophenol (PCP) in Hylebos Waterway. Injury threshold = 12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
48	HCC-1B	5205	5205I	intertidal	2	120	U	60.0	1.0	60.0	4.094	5%
49	Co-Trustee	HY-28	00256	subtidal	1	55.7	M(3)	55.7	1.0	55.7	4.019	5%
50	HCC-1A	5113	5113S	subtidal	1	110	U	55.0	1.0	55.0	4.007	5%
51	Co-Trustee	HY-04	00420	subtidal	1	55		55.0	1.0	55.0	4.007	5%
52	Co-Trustee	HY-24	00191	subtidal	1	55		55.0	1.0	55.0	4.007	5%
53	HCC-1A	4102	4102S	subtidal	1	107	U	53.5	1.0	53.5	3.980	5%
54	Co-Trustee	HY-15	00031	subtidal	1	53		53.0	1.0	53.0	3.970	5%
55	Co-Trustee	HY-23	00173	subtidal	1	52		52.0	1.0	52.0	3.951	5%
56	Co-Trustee	HY-27	00235	subtidal	1	52		52.0	1.0	52.0	3.951	5%
57	HCC-1A	2111	2111S	subtidal	1	100	U	50.0	1.0	50.0	3.912	5%
58	HCC-1A	2104	2104S	subtidal	1	99	U	49.5	1.0	49.5	3.902	5%
59	HCC-1A	5115	5115S	subtidal	1	97	U	48.5	1.0	48.5	3.882	5%
60	HCC-1A	2103	2103S	subtidal	1	96	U	48.0	1.0	48.0	3.871	5%
61	HCC-1B	4208	4208I	intertidal	3	95	UM(4)	47.5	1.0	47.5	3.861	5%
62	HCC-1A	5110	5110S	subtidal	1	95	U	47.5	1.0	47.5	3.861	5%
63	HCC-1A	5112	5112S	subtidal	1	95	U	47.5	1.0	47.5	3.861	5%
64	HCC-1A	5107		subtidal	1	94	UM(4)	47.0	1.0	47.0	3.850	5%
65	HCC-1A	5116	5116S	subtidal	1	94	U	47.0	1.0	47.0	3.850	5%
66	Co-Trustee	HY-03	00426	subtidal	1	47.0	M(3)	47.0	1.0	47.0	3.850	5%
67	HCC-1A	1111	1111S	subtidal	1	93	U	46.5	1.0	46.5	3.839	5%
68	HCC-1A	4105	4105S	subtidal	1	93	U	46.5	1.0	46.5	3.839	5%
69	HCC-1A	1106	1106S	subtidal	1	92	U	46.0	1.0	46.0	3.829	5%
70	HCC-1A	3101	3101S	subtidal	1	91	U	45.5	1.0	45.5	3.818	5%
71	HCC-1A	3104	3104S	subtidal	1	91	U	45.5	1.0	45.5	3.818	5%
72	HCC-1A	3106	3106S	subtidal	1	91	U	45.5	1.0	45.5	3.818	5%
73	HCC-1A	5106	5106S	subtidal	1	91	U	45.5	1.0	45.5	3.818	5%
74	HCC-1A	4104	4104S	subtidal	1	90	U	45.0	1.0	45.0	3.807	5%
75	Co-Trustee	HY-07	00352	subtidal	1	45		45.0	1.0	45.0	3.807	5%
76	HCC-1A	2102	2102S	subtidal	1	89	U	44.5	1.0	44.5	3.795	5%
77	HCC-1A	2110	2110S	subtidal	1	89	U	44.5	1.0	44.5	3.795	5%
78	HCC-1A	3102	3102S	subtidal	1	89	U	44.5	1.0	44.5	3.795	5%
79	HCC-1A	4103	4103S	subtidal	1	89	U	44.5	1.0	44.5	3.795	5%
80	HCC-1A	2107	2107S	subtidal	1	88	U	44.0	1.0	44.0	3.784	5%
81	HCC-1A	3105	3105S	subtidal	1	88	U	44.0	1.0	44.0	3.784	5%
82	HCC-1A	5111	5111S	subtidal	1	88	U	44.0	1.0	44.0	3.784	5%
83	HCC-1A	4107	4107S	subtidal	1	87	U	43.5	1.0	43.5	3.773	5%
84	HCC-1A	1110	1110S	subtidal	1	86	U	43.0	1.0	43.0	3.761	5%
85	HCC-1B	3210	3210I	intertidal	2	86	U	43.0	1.0	43.0	3.761	5%
86	HCC-1B	3209	3209I	intertidal	3	85	U	42.5	1.0	42.5	3.750	5%
87	HCC-1B	1207	1207I	intertidal	2	84	U	42.0	1.0	42.0	3.738	5%
88	HCC-1A	2105	2105S	subtidal	1	84	U	42.0	1.0	42.0	3.738	5%
89	HCC-1A	4101	4101S	subtidal	1	84	U	42.0	1.0	42.0	3.738	5%
90	HCC-1A	5103	5103S	subtidal	1	84	U	42.0	1.0	42.0	3.738	5%
91	HCC-1A	5109	5109S	subtidal	1	42	J	42.0	1.0	42.0	3.738	5%
92	Co-Trustee	HY-22	00156	subtidal	1	42		42.0	1.0	42.0	3.738	5%
93	HCC-1B	3204	3204I	intertidal	3	83	U	41.5	1.0	41.5	3.726	5%
94	HCC-1A	5104	5104S	subtidal	1	83	U	41.5	1.0	41.5	3.726	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-25. Sampling data used to map injury footprints for Pentachlorophenol (PCP) in Hylebos Waterway. Injury threshold = 12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
95	HCC-1A	3103	3103S	subtidal	1	82	U	41.0	1.0	41.0	3.714	5%
96	HCC-1B	4210	4210I	intertidal	3	82	U	41.0	1.0	41.0	3.714	5%
97	HCC-1A	5101	5101S	subtidal	1	82	U	41.0	1.0	41.0	3.714	5%
98	HCC-1A	5102	5102S	subtidal	1	80	U	40.0	1.0	40.0	3.689	5%
99	Co-Trustee	HY-05	00380	subtidal	1	40		40.0	1.0	40.0	3.689	5%
100	HCC-1B	3216	3216I	intertidal	3	78	U	39.0	1.0	39.0	3.664	5%
101	HCC-1A	5105	5105S	subtidal	1	78	U	39.0	1.0	39.0	3.664	5%
102	HCC-1B	1209	1209I	intertidal	3	77	U	38.5	1.0	38.5	3.651	5%
103	HCC-1B	1211	1211I	intertidal	2	77	U	38.5	1.0	38.5	3.651	5%
104	HCC-1B	1213	1213I	intertidal	4	77	U	38.5	1.0	38.5	3.651	5%
105	HCC-1B	3217	3217I	intertidal	2	77	U	38.5	1.0	38.5	3.651	5%
106	HCC-1A	4109		subtidal	1	76.5	UM(4)	38.3	1.0	38.3	3.644	5%
107	HCC-1B	1206	1206I	intertidal	4	75	U	37.5	1.0	37.5	3.624	5%
108	HCC-1A	1109	1109S	subtidal	1	74	U	37.0	1.0	37.0	3.611	5%
109	HCC-1A	1112	1112S	subtidal	1	74	U	37.0	1.0	37.0	3.611	5%
110	HCC-1B	3205	3205I	intertidal	2	74	U	37.0	1.0	37.0	3.611	5%
111	Co-Trustee	HY-08	00313	subtidal	1	37		37.0	1.0	37.0	3.611	5%
112	HCC-1C	1117	1117 S	subtidal	1	36	J	36.0	1.0	36.0	3.584	5%
113	HCC-1B	3211	3211I	intertidal	4	72	U	36.0	1.0	36.0	3.584	5%
114	HCC-1A	4108	4108S	subtidal	1	72	U	36.0	1.0	36.0	3.584	5%
115	HCC-1A	1103	1103S	subtidal	1	71	U	35.5	1.0	35.5	3.570	5%
116	HCC-1A	1113	1113S	subtidal	1	71	U	35.5	1.0	35.5	3.570	5%
117	HCC-1B	1216	1216I	intertidal	3	71	U	35.5	1.0	35.5	3.570	5%
118	HCC-1A	2108	2108S	subtidal	1	70	U	35.0	1.0	35.0	3.555	5%
119	HCC-1B	2204	2204I	intertidal	4	70	U	35.0	1.0	35.0	3.555	5%
120	HCC-1A	4115	4115S	subtidal	1	70	U	35.0	1.0	35.0	3.555	5%
121	HCC-1B	1210	1210I	intertidal	2	68	U	34.0	1.0	34.0	3.526	5%
122	HCC-1B	3212	3212I	intertidal	2	68	U	34.0	1.0	34.0	3.526	5%
123	HCC-1B	1214	1214I	intertidal	3	67	U	33.5	1.0	33.5	3.512	5%
124	HCC-1B	2213	2213I	intertidal	4	67	U	33.5	1.0	33.5	3.512	5%
125	HCC-1B	4206	4206I	intertidal	3	67	U	33.5	1.0	33.5	3.512	5%
126	HCC-1B	2207	2207I	intertidal	2	66	U	33.0	1.0	33.0	3.497	5%
127	HCC-1B	3207	3207I	intertidal	2	66	U	33.0	1.0	33.0	3.497	5%
128	HCC-1B	5214	5214I	intertidal	6	66	U	33.0	1.0	33.0	3.497	5%
129	HCC-1B	2210	2210I	intertidal	5	65	U	32.5	1.0	32.5	3.481	5%
130	HCC-1B	3220	3220I	intertidal	3	65	U	32.5	1.0	32.5	3.481	5%
131	HCC-1B	5213	5213I	intertidal	4	65	U	32.5	1.0	32.5	3.481	5%
132	Co-Trustee	HY-06		subtidal	1	32.3	M(3)	32.3	1.0	32.3	3.476	5%
133	HCC-1B	1215	1215I	intertidal	4	64	U	32.0	1.0	32.0	3.466	5%
134	HCC-1B	4203	4203I	intertidal	2	64	U	32.0	1.0	32.0	3.466	5%
135	HCC-1B	5201	5201I	intertidal	2	64	U	32.0	1.0	32.0	3.466	5%
136	HCC-1C	5215	5215 I	intertidal	2	64	U	32.0	1.0	32.0	3.466	5%
137	HCC-1B	1204	1204I	intertidal	4	63	U	31.5	1.0	31.5	3.450	5%
138	HCC-1B	1217	1217I	intertidal	5	63	U	31.5	1.0	31.5	3.450	5%
139	HCC-1B	4202	4202I	intertidal	3	63	U	31.5	1.0	31.5	3.450	5%
140	HCC-1B	3201		intertidal	4	62.75	UM(4)	31.4	1.0	31.4	3.446	5%
141	HCC-1B	3206	3206I	intertidal	3	61	U	30.5	1.0	30.5	3.418	5%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-25. Sampling data used to map injury footprints for Pentachlorophenol (PCP) in Hylebos Waterway. Injury threshold = 12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
142	HCC-1A	4110	4110S	subtidal	1	61	U	30.5	1.0	30.5	3.418	5%
143	HCC-1B	4204	4204I	intertidal	4	60	U	30.0	1.0	30.0	3.401	5%
144	HCC-1B	3221	3221I	intertidal	3	59	U	29.5	1.0	29.5	3.384	5%
145	HCC-1A	4111	4111S	subtidal	1	59	U	29.5	1.0	29.5	3.384	5%
146	HCC-1B	4207	4207I	intertidal	3	58	U	29.0	1.0	29.0	3.367	5%
147	HCC-1B	3215	3215I	intertidal	2	27	J	27.0	1.0	27.0	3.296	5%
148	Co-Trustee	HY-02	00443	subtidal	1	27		27.0	1.0	27.0	3.296	5%
149	Co-Trustee	HY-14	00020	subtidal	1	26		26.0	1.0	26.0	3.258	5%
150	HCC-1C	1120	1120 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
151	HCC-1C	1121	1121 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
152	HCC-1C	1122	1122 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
153	HCC-1C	1123	1123 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
154	HCC-1C	1124	1124 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
155	HCC-1C	1133	1133 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
156	HCC-1C	2112	2112 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
157	HCC-1C	2113	2113 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
158	HCC-1C	2114	2114 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
159	HCC-1C	2115	2115 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
160	HCC-1C	3107	3107 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
161	HCC-1C	3108		subtidal	1	50	UM	25.0	1.0	25.0	3.219	5%
162	HCC-1C	3110	3110 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
163	HCC-1C	4118	4118 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
164	HCC-1C	4119	4119 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
165	HCC-1C	5121	5121 S	subtidal	1	50	U	25.0	1.0	25.0	3.219	5%
166	HCC-1C	1118	1118 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
167	HCC-1C	1119	1119 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
168	HCC-1C	1126	1126 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
169	HCC-1C	3109	3109 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
170	HCC-1C	4116	4116 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
171	HCC-1C	4117	4117 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
172	HCC-1C	4120	4120 S	subtidal	1	48	U	24.0	1.0	24.0	3.178	5%
173	HCC-1C	5120	5120 S	subtidal	1	47	U	23.5	1.0	23.5	3.157	5%
174	HCC-1A	1105	1105S	subtidal	1	40	U	20.0	1.0	20.0	2.996	5%
175	Co-Trustee	HY-13	00012	subtidal	1	17		17.0	1.0	17.0	2.833	5%
176	Co-Trustee	HY-17	00062	subtidal	1	15		15.0	1.0	15.0	2.708	5%
177	HCC-1B	3203	3203I	intertidal	2	13	J	13.0	1.0	13.0	2.565	5%
178	Co-Trustee	HY-01	00456	subtidal	1	13		13.0	1.0	13.0	2.565	5%
179	HCC-1A	1107	1107S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
180	HCC-1C	1125	1125 S	subtidal	1	10	J	10.0	1.0	10.0	2.303	--
181	HCC-1A	2101	2101S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
182	HCC-1A	1102	1102S	subtidal	1	18	U	9.0	1.0	9.0	2.197	--
183	HCC-1A	4106	4106S	subtidal	1	10	U	5.0	1.0	5.0	1.609	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-26. Sampling data used to map injury footprints for phenol in Hylebos Waterway. Injury threshold = 180 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	5202	5202I	intertidal	6	190		190.0	1.0	190.0	5.247	5%
2	HCC-1B	1204	1204I	intertidal	4	150	J	150.0	1.0	150.0	5.011	--
3	HCC-1A	5103	5103S	subtidal	1	140		140.0	1.0	140.0	4.942	--
4	HCC-1B	3213	3213I	intertidal	2	270	U	135.0	1.0	135.0	4.905	--
5	HCC-1A	2101	2101S	subtidal	1	130		130.0	1.0	130.0	4.868	--
6	HCC-1A	5104	5104S	subtidal	1	130		130.0	1.0	130.0	4.868	--
7	HCC-1B	2211	2211I	intertidal	2	120		120.0	1.0	120.0	4.787	--
8	HCC-1A	5102	5102S	subtidal	1	120		120.0	1.0	120.0	4.787	--
9	HCC-1C	1119	1119 S	subtidal	1	110		110.0	1.0	110.0	4.700	--
10	HCC-1C	4119	4119 S	subtidal	1	110		110.0	1.0	110.0	4.700	--
11	HCC-1B	1201		intertidal	2	212.5	UM(4)	106.3	1.0	106.3	4.666	--
12	HCC-1A	1108	1108S	subtidal	1	210	U	105.0	1.0	105.0	4.654	--
13	HCC-1C	1123	1123 S	subtidal	1	100		100.0	1.0	100.0	4.605	--
14	HCC-1B	3214	3214I	intertidal	2	190	U	95.0	1.0	95.0	4.554	--
15	HCC-1B	4201	4201I	intertidal	4	180	U	90.0	1.0	90.0	4.500	--
16	HCC-1A	4104	4104S	subtidal	1	79		79.0	1.0	79.0	4.369	--
17	HCC-1A	5108	5108S	subtidal	1	79		79.0	1.0	79.0	4.369	--
18	HCC-1A	2106	2106S	subtidal	1	150	U	75.0	1.0	75.0	4.317	--
19	HCC-1B	2202	2202I	intertidal	2	74		74.0	1.0	74.0	4.304	--
20	HCC-1A	5106	5106S	subtidal	1	73		73.0	1.0	73.0	4.290	--
21	HCC-1C	1126	1126 S	subtidal	1	70		70.0	1.0	70.0	4.248	--
22	Co-Trustee	HY-20	00127	subtidal	1	68		68.0	1.0	68.0	4.220	--
23	Co-Trustee	HY-03	00426	subtidal	1	66.3	M(3)	66.3	1.0	66.3	4.195	--
24	HCC-1B	2206	2206I	intertidal	6	64	J	64.0	1.0	64.0	4.159	--
25	HCC-1C	1124	1124 S	subtidal	1	63		63.0	1.0	63.0	4.143	--
26	HCC-1A	3104	3104S	subtidal	1	63		63.0	1.0	63.0	4.143	--
27	HCC-1A	1106	1106S	subtidal	1	60		60.0	1.0	60.0	4.094	--
28	HCC-1B	4207	4207I	intertidal	3	60		60.0	1.0	60.0	4.094	--
29	HCC-1A	5115	5115S	subtidal	1	60		60.0	1.0	60.0	4.094	--
30	HCC-1C	2114	2114 S	subtidal	1	58		58.0	1.0	58.0	4.060	--
31	HCC-1A	5101	5101S	subtidal	1	57		57.0	1.0	57.0	4.043	--
32	Co-Trustee	HY-25	00204	subtidal	1	57		57.0	1.0	57.0	4.043	--
33	HCC-1A	4103	4103S	subtidal	1	56	J	56.0	1.0	56.0	4.025	--
34	Co-Trustee	HY-26	00217	subtidal	1	56		56.0	1.0	56.0	4.025	--
35	HCC-1B	1202	1202I	intertidal	4	110	U	55.0	1.0	55.0	4.007	--
36	HCC-1B	5203	5203I	intertidal	2	110	U	55.0	1.0	55.0	4.007	--
37	HCC-1C	3107	3107 S	subtidal	1	54		54.0	1.0	54.0	3.989	--
38	HCC-1A	5107		subtidal	1	107.25	JM(4)	53.6	1.0	53.6	3.982	--
39	HCC-1A	5114	5114S	subtidal	1	53		53.0	1.0	53.0	3.970	--
40	Co-Trustee	HY-17	00062	subtidal	1	53		53.0	1.0	53.0	3.970	--
41	Co-Trustee	HY-23	00173	subtidal	1	53		53.0	1.0	53.0	3.970	--
42	Co-Trustee	HY-24	00191	subtidal	1	53		53.0	1.0	53.0	3.970	--
43	Co-Trustee	HY-28	00256	subtidal	1	51.3	M(3)	51.3	1.0	51.3	3.938	--
44	HCC-1A	1104	1104S	subtidal	1	100	U	50.0	1.0	50.0	3.912	--
45	HCC-1C	4117	4117 S	subtidal	1	50		50.0	1.0	50.0	3.912	--
46	HCC-1B	5211	5211I	intertidal	2	100	U	50.0	1.0	50.0	3.912	--
47	HCC-1A	1105	1105S	subtidal	1	99	U	49.5	1.0	49.5	3.902	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-26. Sampling data used to map injury footprints for phenol in Hylebos Waterway. Injury threshold = 180 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
48	HCC-1C	1122	1122 S	subtidal	1	49		49.0	1.0	49.0	3.892	--
49	HCC-1A	2108	2108S	subtidal	1	49		49.0	1.0	49.0	3.892	--
50	Co-Trustee	HY-09	00348	subtidal	1	49		49.0	1.0	49.0	3.892	--
51	HCC-1B	1208	1208I	intertidal	2	94	U	47.0	1.0	47.0	3.850	--
52	Co-Trustee	HY-21	00136	subtidal	1	47		47.0	1.0	47.0	3.850	--
53	HCC-1B	5208	5208I	intertidal	2	92	U	46.0	1.0	46.0	3.829	--
54	Co-Trustee	HY-19		subtidal	1	45.7	M(3)	45.7	1.0	45.7	3.821	--
55	HCC-1A	4107	4107S	subtidal	1	45		45.0	1.0	45.0	3.807	--
56	Co-Trustee	HY-04	00420	subtidal	1	45		45.0	1.0	45.0	3.807	--
57	Co-Trustee	HY-05	00380	subtidal	1	45		45.0	1.0	45.0	3.807	--
58	Co-Trustee	HY-10	00326	subtidal	1	45		45.0	1.0	45.0	3.807	--
59	HCC-1A	5105	5105S	subtidal	1	44		44.0	1.0	44.0	3.784	--
60	Co-Trustee	HY-12	00275	subtidal	1	44		44.0	1.0	44.0	3.784	--
61	Co-Trustee	HY-16	00044	subtidal	1	43.0	M(2)	43.0	1.0	43.0	3.761	--
62	Co-Trustee	HY-27	00235	subtidal	1	43		43.0	1.0	43.0	3.761	--
63	HCC-1A	5113	5113S	subtidal	1	40		40.0	1.0	40.0	3.689	--
64	Co-Trustee	HY-11	00295	subtidal	1	40		40.0	1.0	40.0	3.689	--
65	HCC-1C	1133	1133 S	subtidal	1	39		39.0	1.0	39.0	3.664	--
66	Co-Trustee	HY-07	00352	subtidal	1	39		39.0	1.0	39.0	3.664	--
67	HCC-1A	4106	4106S	subtidal	1	76	U	38.0	1.0	38.0	3.638	--
68	HCC-1B	4209	4209I	intertidal	2	76	U	38.0	1.0	38.0	3.638	--
69	HCC-1B	5201	5201I	intertidal	2	38	J	38.0	1.0	38.0	3.638	--
70	Co-Trustee	HY-02	00443	subtidal	1	38		38.0	1.0	38.0	3.638	--
71	Co-Trustee	HY-08	00313	subtidal	1	38		38.0	1.0	38.0	3.638	--
72	Co-Trustee	HY-15	00031	subtidal	1	38		38.0	1.0	38.0	3.638	--
73	Co-Trustee	HY-18	00082	subtidal	1	38		38.0	1.0	38.0	3.638	--
74	Co-Trustee	HY-06		subtidal	1	36.7	M(3)	36.7	1.0	36.7	3.602	--
75	HCC-1A	1113	1113S	subtidal	1	71	U	35.5	1.0	35.5	3.570	--
76	HCC-1B	5210	5210SM	intertidal	2	70	U	35.0	1.0	35.0	3.555	--
77	HCC-1A	4115	4115S	subtidal	1	69	U	34.5	1.0	34.5	3.541	--
78	HCC-1B	4205	4205I	intertidal	3	69	U	34.5	1.0	34.5	3.541	--
79	HCC-1B	3212	3212I	intertidal	2	68	U	34.0	1.0	34.0	3.526	--
80	HCC-1B	3204	3204I	intertidal	3	66	U	33.0	1.0	33.0	3.497	--
81	HCC-1B	4210	4210I	intertidal	3	66	U	33.0	1.0	33.0	3.497	--
82	Co-Trustee	HY-01	00456	subtidal	1	33		33.0	1.0	33.0	3.497	--
83	Co-Trustee	HY-22	00156	subtidal	1	33		33.0	1.0	33.0	3.497	--
84	HCC-1C	1117	1117 S	subtidal	1	32		32.0	1.0	32.0	3.466	--
85	HCC-1B	2214	2214I	intertidal	2	64	U	32.0	1.0	32.0	3.466	--
86	HCC-1B	3215	3215I	intertidal	2	64	U	32.0	1.0	32.0	3.466	--
87	HCC-1B	1203	1203I	intertidal	7	62	U	31.0	1.0	31.0	3.434	--
88	HCC-1B	2213	2213I	intertidal	4	31	J	31.0	1.0	31.0	3.434	--
89	HCC-1B	2215	2215I	intertidal	7	62	U	31.0	1.0	31.0	3.434	--
90	HCC-1B	3216	3216I	intertidal	3	62	U	31.0	1.0	31.0	3.434	--
91	HCC-1B	3219	3219I	intertidal	3	62	U	31.0	1.0	31.0	3.434	--
92	HCC-1B	2205	2205I	intertidal	3	61	U	30.5	1.0	30.5	3.418	--
93	HCC-1A	1112	1112S	subtidal	1	60	U	30.0	1.0	30.0	3.401	--
94	HCC-1A	2109	2109S	subtidal	1	60	U	30.0	1.0	30.0	3.401	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-26. Sampling data used to map injury footprints for phenol in Hylebos Waterway. Injury threshold = 180 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
95	HCC-1B	2204	2204I	intertidal	4	30		30.0	1.0	30.0	3.401	--
96	HCC-1C	5215	5215 I	intertidal	2	30		30.0	1.0	30.0	3.401	--
97	Co-Trustee	HY-13	00012	subtidal	1	30		30.0	1.0	30.0	3.401	--
98	HCC-1A	1101		subtidal	1	59	UM(4)	29.5	1.0	29.5	3.384	--
99	HCC-1B	2209	2209I	intertidal	2	57	U	28.5	1.0	28.5	3.350	--
100	HCC-1A	1109	1109S	subtidal	1	56	U	28.0	1.0	28.0	3.332	--
101	HCC-1B	2208	2208I	intertidal	2	56	U	28.0	1.0	28.0	3.332	--
102	HCC-1B	1214	1214I	intertidal	3	54	U	27.0	1.0	27.0	3.296	--
103	Co-Trustee	HY-14	00020	subtidal	1	27		27.0	1.0	27.0	3.296	--
104	HCC-1B	5206	5206I	intertidal	2	53	U	26.5	1.0	26.5	3.277	--
105	HCC-1B	5209	5209I	intertidal	5	53	U	26.5	1.0	26.5	3.277	--
106	HCC-1B	5207	5207I	intertidal	2	52	U	26.0	1.0	26.0	3.258	--
107	HCC-1B	5212	5212I	intertidal	6	52	U	26.0	1.0	26.0	3.258	--
108	HCC-1B	4202	4202I	intertidal	3	51	U	25.5	1.0	25.5	3.239	--
109	HCC-1B	4203	4203I	intertidal	2	51	U	25.5	1.0	25.5	3.239	--
110	HCC-1B	5205	5205I	intertidal	2	49	U	24.5	1.0	24.5	3.199	--
111	HCC-1B	4204	4204I	intertidal	4	48	U	24.0	1.0	24.0	3.178	--
112	HCC-1C	1120	1120 S	subtidal	1	22		22.0	1.0	22.0	3.091	--
113	HCC-1C	2115	2115 S	subtidal	1	21		21.0	1.0	21.0	3.045	--
114	HCC-1A	2104	2104S	subtidal	1	40	U	20.0	1.0	20.0	2.996	--
115	HCC-1A	2111	2111S	subtidal	1	40	U	20.0	1.0	20.0	2.996	--
116	HCC-1A	1107	1107S	subtidal	1	39	U	19.5	1.0	19.5	2.970	--
117	HCC-1B	4208	4208I	intertidal	3	38	UM(4)	19.0	1.0	19.0	2.944	--
118	HCC-1A	5110	5110S	subtidal	1	38	U	19.0	1.0	19.0	2.944	--
119	HCC-1A	5116	5116S	subtidal	1	38	U	19.0	1.0	19.0	2.944	--
120	HCC-1A	4109		subtidal	1	37.5	M(2)	18.8	1.0	18.8	2.931	--
121	HCC-1A	1111	1111S	subtidal	1	37	U	18.5	1.0	18.5	2.918	--
122	HCC-1A	4105	4105S	subtidal	1	37	U	18.5	1.0	18.5	2.918	--
123	HCC-1A	1102	1102S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
124	HCC-1A	2102	2102S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
125	HCC-1A	2110	2110S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
126	HCC-1A	3102	3102S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
127	HCC-1A	3106	3106S	subtidal	1	36	U	18.0	1.0	18.0	2.890	--
128	HCC-1A	1110	1110S	subtidal	1	35	U	17.5	1.0	17.5	2.862	--
129	HCC-1A	2107	2107S	subtidal	1	35	U	17.5	1.0	17.5	2.862	--
130	HCC-1B	2212	2212I	intertidal	3	35	U	17.5	1.0	17.5	2.862	--
131	HCC-1A	3105	3105S	subtidal	1	35	U	17.5	1.0	17.5	2.862	--
132	HCC-1B	3210	3210I	intertidal	2	35	U	17.5	1.0	17.5	2.862	--
133	HCC-1B	1207	1207I	intertidal	2	34	U	17.0	1.0	17.0	2.833	--
134	HCC-1A	2105	2105S	subtidal	1	34	U	17.0	1.0	17.0	2.833	--
135	HCC-1B	3209	3209I	intertidal	3	34	U	17.0	1.0	17.0	2.833	--
136	HCC-1A	5109	5109S	subtidal	1	34	U	17.0	1.0	17.0	2.833	--
137	HCC-1A	3103	3103S	subtidal	1	33	U	16.5	1.0	16.5	2.803	--
138	HCC-1A	4101	4101S	subtidal	1	33	U	16.5	1.0	16.5	2.803	--
139	HCC-1B	1209	1209I	intertidal	3	31	U	15.5	1.0	15.5	2.741	--
140	HCC-1B	1211	1211I	intertidal	2	31	U	15.5	1.0	15.5	2.741	--
141	HCC-1B	1213	1213I	intertidal	4	31	U	15.5	1.0	15.5	2.741	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-26. Sampling data used to map injury footprints for phenol in Hylebos Waterway. Injury threshold = 180 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
142	HCC-1B	3217	3217I	intertidal	2	31	U	15.5	1.0	15.5	2.741	--
143	HCC-1A	4111	4111S	subtidal	1	31	U	15.5	1.0	15.5	2.741	--
144	HCC-1A	5112	5112S	subtidal	1	31	U	15.5	1.0	15.5	2.741	--
145	HCC-1B	1206	1206I	intertidal	4	30	U	15.0	1.0	15.0	2.708	--
146	HCC-1B	3205	3205I	intertidal	2	30	U	15.0	1.0	15.0	2.708	--
147	HCC-1A	5111	5111S	subtidal	1	30	U	15.0	1.0	15.0	2.708	--
148	HCC-1B	1216	1216I	intertidal	3	29	U	14.5	1.0	14.5	2.674	--
149	HCC-1B	3211	3211I	intertidal	4	29	U	14.5	1.0	14.5	2.674	--
150	HCC-1A	4108	4108S	subtidal	1	29	U	14.5	1.0	14.5	2.674	--
151	HCC-1B	1212	1212I	intertidal	2	28	U	14.0	1.0	14.0	2.639	--
152	HCC-1B	1210	1210I	intertidal	2	27	U	13.5	1.0	13.5	2.603	--
153	HCC-1B	4206	4206I	intertidal	3	27	U	13.5	1.0	13.5	2.603	--
154	HCC-1B	1215	1215I	intertidal	4	26	U	13.0	1.0	13.0	2.565	--
155	HCC-1A	2103	2103S	subtidal	1	26	U	13.0	1.0	13.0	2.565	--
156	HCC-1B	2207	2207I	intertidal	2	26	U	13.0	1.0	13.0	2.565	--
157	HCC-1B	2210	2210I	intertidal	5	26	U	13.0	1.0	13.0	2.565	--
158	HCC-1C	3110	3110 S	subtidal	1	13	J	13.0	1.0	13.0	2.565	--
159	HCC-1B	3207	3207I	intertidal	2	26	U	13.0	1.0	13.0	2.565	--
160	HCC-1B	3220	3220I	intertidal	3	26	U	13.0	1.0	13.0	2.565	--
161	HCC-1B	5213	5213I	intertidal	4	26	U	13.0	1.0	13.0	2.565	--
162	HCC-1B	5214	5214I	intertidal	6	26	U	13.0	1.0	13.0	2.565	--
163	HCC-1B	1217	1217I	intertidal	5	25	U	12.5	1.0	12.5	2.526	--
164	HCC-1B	3203	3203I	intertidal	2	25	U	12.5	1.0	12.5	2.526	--
165	HCC-1B	3201		intertidal	4	24.66667	JM(4)	12.3	1.0	12.3	2.512	--
166	HCC-1B	3206	3206I	intertidal	3	24	U	12.0	1.0	12.0	2.485	--
167	HCC-1B	3221	3221I	intertidal	3	24	U	12.0	1.0	12.0	2.485	--
168	HCC-1A	4110	4110S	subtidal	1	22	U	11.0	1.0	11.0	2.398	--
169	HCC-1A	1103	1103S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
170	HCC-1C	1121	1121 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
171	HCC-1C	1125	1125 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
172	HCC-1C	2113	2113 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
173	HCC-1C	3108		subtidal	1	20	UM	10.0	1.0	10.0	2.303	--
174	HCC-1C	4118	4118 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
175	HCC-1C	5121	5121 S	subtidal	1	20	U	10.0	1.0	10.0	2.303	--
176	HCC-1C	1118	1118 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
177	HCC-1C	2112	2112 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
178	HCC-1C	3109	3109 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
179	HCC-1A	4102	4102S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
180	HCC-1C	4116	4116 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
181	HCC-1C	4120	4120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
182	HCC-1C	5120	5120 S	subtidal	1	19	U	9.5	1.0	9.5	2.251	--
183	HCC-1A	3101	3101S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-27. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethylene (DDE) in Hylebos Waterway. Threshold=9 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	5211	5211I	intertidal	2	1100		1100	1.0	1,100.0	7.003	10%
2	HCC-1B	5209	5209I	intertidal	5	1100	U	550.0	1.0	550.0	6.310	10%
3	HCC-1B	5210	5210SM	intertidal	2	830	U	415.0	1.0	415.0	6.028	10%
4	HCC-1B	2206	2206I	intertidal	6	92		92	1.0	92.0	4.522	10%
5	HCC-1B	5208	5208I	intertidal	2	120	U	60.0	1.0	60.0	4.094	5%
6	HCC-1B	5203	5203I	intertidal	2	110	U	55.0	1.0	55.0	4.007	5%
7	HCC-1B	5206	5206I	intertidal	2	110	U	55.0	1.0	55.0	4.007	5%
8	HCC-1C	2114	2114 S	subtidal	1	15		15.0	1.0	15.0	2.708	5%
9	HCC-1B	5207	5207I	intertidal	2	30	U	15.0	1.0	15.0	2.708	5%
10	Co-Trustee	HY-26	00217	subtidal	1	13		13.0	1.0	13.0	2.565	5%
11	Co-Trustee	HY-28	00256	subtidal	1	11.3	M(3)	11.3	1.0	11.3	2.428	5%
12	HCC-1A	2104	2104S	subtidal	1	10		10	1.0	10.0	2.303	5%
13	Co-Trustee	HY-25	00204	subtidal	1	9.6		9.6	1.0	9.6	2.262	5%
14	HCC-1A	2103	2103S	subtidal	1	9.2		9.2	1.0	9.2	2.219	5%
15	HCC-1B	2205	2205I	intertidal	3	8.9		8.9	1.0	8.9	2.186	--
16	Co-Trustee	HY-27	00235	subtidal	1	8.9		8.9	1.0	8.9	2.186	--
17	HCC-1A	2108	2108S	subtidal	1	8.6		8.6	1.0	8.6	2.152	--
18	HCC-1B	2204	2204I	intertidal	4	7.4		7.4	1.0	7.4	2.001	--
19	HCC-1A	5112	5112S	subtidal	1	7.1		7.1	1.0	7.1	1.960	--
20	Co-Trustee	HY-24	00191	subtidal	1	6.9		6.9	1.0	6.9	1.932	--
21	HCC-1A	2101	2101S	subtidal	1	5.7		5.7	1.0	5.7	1.740	--
22	HCC-1A	2102	2102S	subtidal	1	5.6		5.6	1.0	5.6	1.723	--
23	HCC-1A	5111	5111S	subtidal	1	11	U	5.5	1.0	5.5	1.705	--
24	HCC-1A	2109	2109S	subtidal	1	5.3		5.3	1.0	5.3	1.668	--
25	HCC-1A	5109	5109S	subtidal	1	9.8	U	4.9	1.0	4.9	1.589	--
26	HCC-1A	2107	2107S	subtidal	1	9.7	U	4.9	1.0	4.9	1.579	--
27	Co-Trustee	HY-19		subtidal	1	4.7	M(3)	4.7	1.0	4.7	1.548	--
28	HCC-1B	2211	2211I	intertidal	2	9.2	U	4.6	1.0	4.6	1.526	--
29	HCC-1A	5105	5105S	subtidal	1	9.0	U	4.5	1.0	4.5	1.504	--
30	Co-Trustee	HY-17	00062	subtidal	1	4.5		4.5	1.0	4.5	1.504	--
31	HCC-1A	1112	1112S	subtidal	1	4.4		4.4	1.0	4.4	1.482	--
32	HCC-1A	5113	5113S	subtidal	1	8.6	U	4.3	1.0	4.3	1.459	--
33	HCC-1B	1208	1208I	intertidal	2	4.2		4.2	1.0	4.2	1.435	--
34	Co-Trustee	HY-18	00082	subtidal	1	4.1		4.1	1.0	4.1	1.411	--
35	Co-Trustee	HY-21	00136	subtidal	1	4.1		4.1	1.0	4.1	1.411	--
36	Co-Trustee	HY-20	00127	subtidal	1	3.9		3.9	1.0	3.9	1.361	--
37	HCC-1A	2105	2105S	subtidal	1	7.6	U	3.8	1.0	3.8	1.335	--
38	Co-Trustee	HY-23	00173	subtidal	1	3.8		3.8	1.0	3.8	1.335	--
39	HCC-1A	2111	2111S	subtidal	1	3.7		3.7	1.0	3.7	1.308	--
40	HCC-1A	4110	4110S	subtidal	1	3.6		3.6	1.0	3.6	1.281	--
41	HCC-1C	1133	1133 S	subtidal	1	7.1	U	3.6	1.0	3.6	1.267	--
42	HCC-1C	4117	4117 S	subtidal	1	7	U	3.5	1.0	3.5	1.253	--
43	HCC-1C	1126	1126 S	subtidal	1	6.8	U	3.4	1.0	3.4	1.224	--
44	HCC-1A	3106	3106S	subtidal	1	6.8	U	3.4	1.0	3.4	1.224	--
45	HCC-1A	4101	4101S	subtidal	1	6.8	U	3.4	1.0	3.4	1.224	--
46	Co-Trustee	HY-16	00044	subtidal	1	3.4	M(2)	3.4	1.0	3.4	1.209	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

3/13/02

Table D-27. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethylene (DDE) in Hylebos Waterway. Threshold=9 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
47	HCC-1C	3109	3109 S	subtidal	1	6.6	U	3.3	1.0	3.3	1.194	--
48	HCC-1A	2106	2106S	subtidal	1	6.4	U	3.2	1.0	3.2	1.163	--
49	HCC-1C	1125	1125 S	subtidal	1	6.3	U	3.2	1.0	3.2	1.147	--
50	HCC-1A	3105	3105S	subtidal	1	6.3	U	3.2	1.0	3.2	1.147	--
51	HCC-1C	3107	3107 S	subtidal	1	6.3	U	3.2	1.0	3.2	1.147	--
52	HCC-1A	5116	5116S	subtidal	1	6.3	U	3.2	1.0	3.2	1.147	--
53	HCC-1C	1120	1120 S	subtidal	1	6.2	U	3.1	1.0	3.1	1.131	--
54	HCC-1C	3110	3110 S	subtidal	1	6.1	U	3.1	1.0	3.1	1.115	--
55	HCC-1C	2113	2113 S	subtidal	1	6	U	3.0	1.0	3.0	1.099	--
56	HCC-1B	4205	4205I	intertidal	3	6.0	U	3.0	1.0	3.0	1.099	--
57	HCC-1A	2110	2110S	subtidal	1	5.9	U	3.0	1.0	3.0	1.082	--
58	HCC-1A	1109	1109S	subtidal	1	2.9		2.9	1.0	2.9	1.065	--
59	HCC-1C	1122	1122 S	subtidal	1	5.6	U	2.8	1.0	2.8	1.030	--
60	HCC-1C	1123	1123 S	subtidal	1	2.8		2.8	1.0	2.8	1.030	--
61	HCC-1C	4120	4120 S	subtidal	1	5.4	U	2.7	1.0	2.7	0.993	--
62	Co-Trustee	HY-22	00156	subtidal	1	2.7		2.7	1.0	2.7	0.993	--
63	HCC-1A	1101		subtidal	1	5.3	UM(4)	2.7	1.0	2.7	0.975	--
64	HCC-1A	1102	1102S	subtidal	1	5.2	U	2.6	1.0	2.6	0.956	--
65	HCC-1A	5115	5115S	subtidal	1	5.2	U	2.6	1.0	2.6	0.956	--
66	HCC-1A	1110	1110S	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
67	HCC-1A	4103	4103S	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
68	HCC-1A	4111	4111S	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
69	HCC-1C	1117	1117 S	subtidal	1	4.9	U	2.5	1.0	2.5	0.896	--
70	HCC-1C	4116	4116 S	subtidal	1	4.8	U	2.4	1.0	2.4	0.875	--
71	HCC-1B	4204	4204I	intertidal	4	2.4		2.4	1.0	2.4	0.875	--
72	HCC-1A	4106	4106S	subtidal	1	4.7	U	2.4	1.0	2.4	0.854	--
73	HCC-1B	1207	1207I	intertidal	2	2.3		2.3	1.0	2.3	0.833	--
74	HCC-1A	3104	3104S	subtidal	1	4.5	U	2.3	1.0	2.3	0.811	--
75	HCC-1A	1107	1107S	subtidal	1	4.4	U	2.2	1.0	2.2	0.788	--
76	HCC-1A	1104	1104S	subtidal	1	4.3	U	2.2	1.0	2.2	0.765	--
77	HCC-1B	2212	2212I	intertidal	3	4.3	U	2.2	1.0	2.2	0.765	--
78	HCC-1A	5106	5106S	subtidal	1	4.3	U	2.2	1.0	2.2	0.765	--
79	Co-Trustee	HY-13	00012	subtidal	1	2.1		2.1	1.0	2.1	0.742	--
80	HCC-1C	2112	2112 S	subtidal	1	4	U	2.0	1.0	2.0	0.693	--
81	HCC-1B	5205	5205I	intertidal	2	4.0	U	2.0	1.0	2.0	0.693	--
82	HCC-1B	2215	2215I	intertidal	7	3.8	U	1.9	1.0	1.9	0.642	--
83	HCC-1B	3214	3214I	intertidal	2	3.8	U	1.9	1.0	1.9	0.642	--
84	HCC-1A	4107	4107S	subtidal	1	3.8	U	1.9	1.0	1.9	0.642	--
85	HCC-1A	1105	1105S	subtidal	1	3.7	U	1.9	1.0	1.9	0.615	--
86	HCC-1A	3101	3101S	subtidal	1	3.7	U	1.9	1.0	1.9	0.615	--
87	HCC-1A	1108	1108S	subtidal	1	3.6	U	1.8	1.0	1.8	0.588	--
88	HCC-1C	1121	1121 S	subtidal	1	3.6	U	1.8	1.0	1.8	0.588	--
89	Co-Trustee	HY-12	00275	subtidal	1	1.8		1.8	1.0	1.8	0.588	--
90	Co-Trustee	HY-15	00031	subtidal	1	1.8		1.8	1.0	1.8	0.588	--
91	HCC-1A	1103	1103S	subtidal	1	3.5	U	1.8	1.0	1.8	0.560	--
92	HCC-1C	4118	4118 S	subtidal	1	3.4	U	1.7	1.0	1.7	0.531	--
93	HCC-1A	4109		subtidal	1	3.2		1.6	1.0	1.6	0.470	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-27. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethylene (DDE) in Hylebos Waterway. Threshold=9 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
94	HCC-1C	5215	5215 I	intertidal	2	3.2	U	1.6	1.0	1.6	0.470	--
95	HCC-1B	4206	4206I	intertidal	3	3.1	U	1.6	1.0	1.6	0.438	--
96	HCC-1B	4208	4208I	intertidal	3	3.0	UM(4)	1.5	1.0	1.5	0.414	--
97	HCC-1B	1212	1212I	intertidal	2	3.0	U	1.5	1.0	1.5	0.405	--
98	HCC-1C	2115	2115 S	subtidal	1	3	U	1.5	1.0	1.5	0.405	--
99	HCC-1A	4115	4115S	subtidal	1	3.0	U	1.5	1.0	1.5	0.405	--
100	HCC-1C	1118	1118 S	subtidal	1	2.9	U	1.5	1.0	1.5	0.372	--
101	HCC-1C	1119	1119 S	subtidal	1	2.9	U	1.5	1.0	1.5	0.372	--
102	HCC-1A	4104	4104S	subtidal	1	2.9	U	1.5	1.0	1.5	0.372	--
103	HCC-1B	5212	5212I	intertidal	6	2.9	U	1.5	1.0	1.5	0.372	--
104	HCC-1B	3215	3215I	intertidal	2	2.8	U	1.4	1.0	1.4	0.336	--
105	HCC-1A	5107		subtidal	1	2.8		1.4	1.0	1.4	0.336	--
106	HCC-1C	4119	4119 S	subtidal	1	2.7	U	1.4	1.0	1.4	0.300	--
107	HCC-1B	4209	4209I	intertidal	2	2.7	U	1.4	1.0	1.4	0.300	--
108	HCC-1B	3216	3216I	intertidal	3	2.5	U	1.3	1.0	1.3	0.223	--
109	HCC-1A	5110	5110S	subtidal	1	2.5	U	1.3	1.0	1.3	0.223	--
110	HCC-1A	1106	1106S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
111	HCC-1A	1111	1111S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
112	HCC-1A	5114	5114S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
113	Co-Trustee	HY-11	00295	subtidal	1	1.2		1.2	1.0	1.2	0.182	--
114	HCC-1B	3205	3205I	intertidal	2	2.3	U	1.2	1.0	1.2	0.140	--
115	Co-Trustee	HY-14	00020	subtidal	1	1.1		1.1	1.0	1.1	0.095	--
116	HCC-1C	1124	1124 S	subtidal	1	2	U	1.0	1.0	1.0	0.000	--
117	HCC-1A	3102	3102S	subtidal	1	2.0	U	1.0	1.0	1.0	0.000	--
118	HCC-1C	3108		subtidal	1	2	UM	1.0	1.0	1.0	0.000	--
119	HCC-1C	5121	5121 S	subtidal	1	2	U	1.0	1.0	1.0	0.000	--
120	HCC-1B	1201		intertidal	2	1.9	UM(4)	1.0	1.0	1.0	0.000**	--
121	HCC-1A	4105	4105S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
122	HCC-1C	5120	5120 S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
123	HCC-1A	1113	1113S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
124	HCC-1B	3213	3213I	intertidal	2	1.8	U	0.9	1.0	0.9	0.000**	--
125	HCC-1A	5108	5108S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
126	HCC-1B	2202	2202I	intertidal	2	1.7	U	0.9	1.0	0.9	0.000**	--
127	HCC-1B	3204	3204I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
128	HCC-1B	3209	3209I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
129	HCC-1B	3210	3210I	intertidal	2	1.7	U	0.9	1.0	0.9	0.000**	--
130	HCC-1B	3212	3212I	intertidal	2	1.7	U	0.9	1.0	0.9	0.000**	--
131	HCC-1A	5103	5103S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
132	HCC-1A	5104	5104S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
133	Co-Trustee	HY-04	00420	subtidal	1	0.83		0.8	1.0	0.8	0.000**	--
134	HCC-1B	2214	2214I	intertidal	2	1.6	U	0.8	1.0	0.8	0.000**	--
135	HCC-1A	3103	3103S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
136	HCC-1B	4210	4210I	intertidal	3	1.6	U	0.8	1.0	0.8	0.000**	--
137	HCC-1A	5101	5101S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
138	HCC-1A	5102	5102S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
139	Co-Trustee	HY-06		subtidal	1	0.8	M(3)	0.8	1.0	0.8	0.000**	--
140	HCC-1B	1203	1203I	intertidal	7	1.5	U	0.8	1.0	0.8	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-27. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethylene (DDE) in Hylebos Waterway. Threshold=9 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
141	HCC-1B	1206	1206I	intertidal	4	1.5	U	0.8	1.0	0.8	0.000**	--
142	HCC-1B	1209	1209I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
143	HCC-1B	1211	1211I	intertidal	2	1.5	U	0.8	1.0	0.8	0.000**	--
144	HCC-1B	1213	1213I	intertidal	4	1.5	U	0.8	1.0	0.8	0.000**	--
145	HCC-1B	2210	2210I	intertidal	5	1.5	U	0.8	1.0	0.8	0.000**	--
146	HCC-1B	3206	3206I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
147	HCC-1B	3217	3217I	intertidal	2	1.5	U	0.8	1.0	0.8	0.000**	--
148	HCC-1B	3219	3219I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
149	HCC-1A	4102	4102S	subtidal	1	1.5	U	0.8	1.0	0.8	0.000**	--
150	HCC-1B	1216	1216I	intertidal	3	1.4	U	0.7	1.0	0.7	0.000**	--
151	HCC-1B	2208	2208I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
152	HCC-1B	2209	2209I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
153	HCC-1B	3211	3211I	intertidal	4	1.4	U	0.7	1.0	0.7	0.000**	--
154	HCC-1A	4108	4108S	subtidal	1	1.4	U	0.7	1.0	0.7	0.000**	--
155	HCC-1B	4201	4201I	intertidal	4	1.4	U	0.7	1.0	0.7	0.000**	--
156	HCC-1B	1202	1202I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
157	HCC-1B	1204	1204I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
158	HCC-1B	1210	1210I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
159	HCC-1B	1214	1214I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
160	HCC-1B	1215	1215I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
161	HCC-1B	1217	1217I	intertidal	5	1.3	U	0.7	1.0	0.7	0.000**	--
162	HCC-1B	2207	2207I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
163	HCC-1B	2213	2213I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
164	HCC-1B	3201		intertidal	4	1.3	UM(4)	0.7	1.0	0.7	0.000**	--
165	HCC-1B	3203	3203I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
166	HCC-1B	3207	3207I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
167	HCC-1B	3220	3220I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
168	HCC-1B	4202	4202I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
169	HCC-1B	4203	4203I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
170	HCC-1B	5201	5201I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
171	HCC-1B	5202	5202I	intertidal	6	1.3	U	0.7	1.0	0.7	0.000**	--
172	HCC-1B	5213	5213I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
173	HCC-1B	5214	5214I	intertidal	6	1.3	U	0.7	1.0	0.7	0.000**	--
174	Co-Trustee	HY-10	00326	subtidal	1	0.64		0.6	1.0	0.6	0.000**	--
175	HCC-1B	3221	3221I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
176	HCC-1B	4207	4207I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
177	Co-Trustee	HY-05	00380	subtidal	1	0.54		0.5	1.0	0.5	0.000**	--
178	Co-Trustee	HY-02	00443	subtidal	1	0.49		0.5	1.0	0.5	0.000**	--
179	Co-Trustee	HY-09	00348	subtidal	1	0.47		0.5	1.0	0.5	0.000**	--
180	Co-Trustee	HY-01	00456	subtidal	1	0.22		0.2	1.0	0.2	0.000**	--
181	Co-Trustee	HY-08	00313	subtidal	1	0.18		0.2	1.0	0.2	0.000**	--
182	Co-Trustee	HY-03	00426	subtidal	1	0.1	M(3)	0.1	1.0	0.1	0.000**	--
183	Co-Trustee	HY-07	00352	subtidal	1	0.04	U	0.0	1.0	0.0	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-28. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethane (DDD) in Hylebos Waterway. Threshold = 16 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	5210	5210SM	intertidal	2	2500	U	1250.0	1.0	1,250.0	7.131	10%
2	HCC-1B	5209	5209I	intertidal	5	2300	U	1150.0	1.0	1,150.0	7.048	10%
3	HCC-1B	5211	5211I	intertidal	2	2000	U	1000.0	1.0	1,000.0	6.908	10%
4	HCC-1B	2206	2206I	intertidal	6	220		220.0	1.0	220.0	5.394	10%
5	HCC-1C	2113	2113 S	subtidal	1	140		140.0	1.0	140.0	4.942	10%
6	HCC-1B	5203	5203I	intertidal	2	110	U	55.0	1.0	55.0	4.007	5%
7	HCC-1B	5206	5206I	intertidal	2	110	U	55.0	1.0	55.0	4.007	5%
8	HCC-1B	5208	5208I	intertidal	2	92	U	46.0	1.0	46.0	3.829	5%
9	HCC-1B	5207	5207I	intertidal	2	86	U	43.0	1.0	43.0	3.761	5%
10	HCC-1C	4116	4116 S	subtidal	1	26		26.0	1.0	26.0	3.258	5%
11	HCC-1A	4101	4101S	subtidal	1	23		23.0	1.0	23.0	3.135	5%
12	Co-Trustee	HY-28	00256	subtidal	1	21.0	M(3)	21.0	1.0	21.0	3.045	5%
13	Co-Trustee	HY-24	00191	subtidal	1	16		16.0	1.0	16.0	2.773	--
14	Co-Trustee	HY-20	00127	subtidal	1	15		15.0	1.0	15.0	2.708	--
15	HCC-1C	2114	2114 S	subtidal	1	14		14.0	1.0	14.0	2.639	--
16	Co-Trustee	HY-21	00136	subtidal	1	14		14.0	1.0	14.0	2.639	--
17	Co-Trustee	HY-19		subtidal	1	13.7	M(3)	13.7	1.0	13.7	2.615	--
18	HCC-1B	1212	1212I	intertidal	2	12		12.0	1.0	12.0	2.485	--
19	Co-Trustee	HY-16	00044	subtidal	1	11.5	M(2)	11.5	1.0	11.5	2.442	--
20	Co-Trustee	HY-23	00173	subtidal	1	11		11.0	1.0	11.0	2.398	--
21	HCC-1A	5108	5108S	subtidal	1	21	U	10.5	1.0	10.5	2.351	--
22	HCC-1C	2112	2112 S	subtidal	1	9.3		9.3	1.0	9.3	2.230	--
23	HCC-1C	1133	1133 S	subtidal	1	8.5		8.5	1.0	8.5	2.140	--
24	Co-Trustee	HY-12	00275	subtidal	1	7.8		7.8	1.0	7.8	2.054	--
25	Co-Trustee	HY-18	00082	subtidal	1	7.6		7.6	1.0	7.6	2.028	--
26	Co-Trustee	HY-10	00326	subtidal	1	7.4		7.4	1.0	7.4	2.001	--
27	HCC-1B	3215	3215I	intertidal	2	7.3		7.3	1.0	7.3	1.988	--
28	Co-Trustee	HY-06		subtidal	1	7.3	M(3)	7.3	1.0	7.3	1.988	--
29	Co-Trustee	HY-08	00313	subtidal	1	7.2		7.2	1.0	7.2	1.974	--
30	Co-Trustee	HY-22	00156	subtidal	1	7.1		7.1	1.0	7.1	1.960	--
31	HCC-1A	2106	2106S	subtidal	1	6.8		6.8	1.0	6.8	1.917	--
32	Co-Trustee	HY-15	00031	subtidal	1	6.7		6.7	1.0	6.7	1.902	--
33	HCC-1A	2103	2103S	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
34	Co-Trustee	HY-11	00295	subtidal	1	6.5		6.5	1.0	6.5	1.872	--
35	HCC-1B	3216	3216I	intertidal	3	6.3		6.3	1.0	6.3	1.841	--
36	HCC-1B	4209	4209I	intertidal	2	6.3		6.3	1.0	6.3	1.841	--
37	HCC-1B	1208	1208I	intertidal	2	6.1		6.1	1.0	6.1	1.808	--
38	HCC-1A	2107	2107S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
39	Co-Trustee	HY-17	00062	subtidal	1	5.9		5.9	1.0	5.9	1.775	--
40	HCC-1B	2205	2205I	intertidal	3	5.5		5.5	1.0	5.5	1.705	--
41	HCC-1C	1121	1121 S	subtidal	1	5.2		5.2	1.0	5.2	1.649	--
42	HCC-1C	3109	3109 S	subtidal	1	5.2		5.2	1.0	5.2	1.649	--
43	Co-Trustee	HY-02	00443	subtidal	1	5.2		5.2	1.0	5.2	1.649	--
44	HCC-1C	3110	3110 S	subtidal	1	9.7	U	4.9	1.0	4.9	1.579	--
45	HCC-1A	4105	4105S	subtidal	1	4.8		4.8	1.0	4.8	1.569	--
46	HCC-1C	4117	4117 S	subtidal	1	9	U	4.5	1.0	4.5	1.504	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-28. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethane (DDD) in Hylebos Waterway. Threshold = 16 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
47	HCC-1A	5112	5112S	subtidal	1	9.0	U	4.5	1.0	4.5	1.504	--
48	HCC-1B	2215	2215I	intertidal	7	4.3		4.3	1.0	4.3	1.459	--
49	HCC-1A	1105	1105S	subtidal	1	4.2		4.2	1.0	4.2	1.435	--
50	HCC-1A	1112	1112S	subtidal	1	4.2		4.2	1.0	4.2	1.435	--
51	HCC-1C	1122	1122 S	subtidal	1	4.2		4.2	1.0	4.2	1.435	--
52	HCC-1C	1125	1125 S	subtidal	1	4.1		4.1	1.0	4.1	1.411	--
53	HCC-1C	1120	1120 S	subtidal	1	4		4.0	1.0	4.0	1.386	--
54	HCC-1C	2115	2115 S	subtidal	1	8	U	4.0	1.0	4.0	1.386	--
55	Co-Trustee	HY-09	00348	subtidal	1	3.9		3.9	1.0	3.9	1.361	--
56	Co-Trustee	HY-14	00020	subtidal	1	3.9		3.9	1.0	3.9	1.361	--
57	HCC-1A	5113	5113S	subtidal	1	7.6	U	3.8	1.0	3.8	1.335	--
58	Co-Trustee	HY-04	00420	subtidal	1	3.8		3.8	1.0	3.8	1.335	--
59	HCC-1B	2211	2211I	intertidal	2	7.5	U	3.8	1.0	3.8	1.322	--
60	Co-Trustee	HY-05	00380	subtidal	1	3.7		3.7	1.0	3.7	1.308	--
61	HCC-1C	3107	3107 S	subtidal	1	7.3	U	3.7	1.0	3.7	1.295	--
62	HCC-1A	5105	5105S	subtidal	1	7.3	U	3.7	1.0	3.7	1.295	--
63	HCC-1A	2105	2105S	subtidal	1	7.1	U	3.6	1.0	3.6	1.267	--
64	HCC-1A	2104	2104S	subtidal	1	6.9	U	3.5	1.0	3.5	1.238	--
65	HCC-1A	1104	1104S	subtidal	1	3.4		3.4	1.0	3.4	1.224	--
66	HCC-1B	5202	5202I	intertidal	6	3.4		3.4	1.0	3.4	1.224	--
67	HCC-1B	5214	5214I	intertidal	6	3.3		3.3	1.0	3.3	1.194	--
68	HCC-1A	1107	1107S	subtidal	1	3.2		3.2	1.0	3.2	1.163	--
69	HCC-1A	2108	2108S	subtidal	1	6.2	U	3.1	1.0	3.1	1.131	--
70	Co-Trustee	HY-03	00426	subtidal	1	3.1	M(3)	3.1	1.0	3.1	1.121	--
71	HCC-1B	1207	1207I	intertidal	2	3.0		3.0	1.0	3.0	1.099	--
72	Co-Trustee	HY-13	00012	subtidal	1	3		3.0	1.0	3.0	1.099	--
73	HCC-1C	1118	1118 S	subtidal	1	2.9		2.9	1.0	2.9	1.065	--
74	HCC-1B	2214	2214I	intertidal	2	2.8		2.8	1.0	2.8	1.030	--
75	HCC-1A	2109	2109S	subtidal	1	5.5	U	2.8	1.0	2.8	1.012	--
76	HCC-1A	5115	5115S	subtidal	1	5.5	U	2.8	1.0	2.8	1.012	--
77	HCC-1C	1124	1124 S	subtidal	1	2.7		2.7	1.0	2.7	0.993	--
78	HCC-1C	1117	1117 S	subtidal	1	5.3	U	2.7	1.0	2.7	0.975	--
79	Co-Trustee	HY-26	00217	subtidal	1	2.6		2.6	1.0	2.6	0.956	--
80	HCC-1A	1103	1103S	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
81	HCC-1A	1108	1108S	subtidal	1	5.0	U	2.5	1.0	2.5	0.916	--
82	Co-Trustee	HY-25	00204	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
83	HCC-1A	1109	1109S	subtidal	1	2.4		2.4	1.0	2.4	0.875	--
84	HCC-1C	4120	4120 S	subtidal	1	4.8	U	2.4	1.0	2.4	0.875	--
85	HCC-1A	5103	5103S	subtidal	1	4.8	U	2.4	1.0	2.4	0.875	--
86	HCC-1B	2212	2212I	intertidal	3	2.3		2.3	1.0	2.3	0.833	--
87	HCC-1A	4109		subtidal	1	4.5	UM(4)	2.2	1.0	2.2	0.805	--
88	HCC-1A	1101		subtidal	1	4.4	UM(4)	2.2	1.0	2.2	0.788	--
89	HCC-1A	1111	1111S	subtidal	1	2.2		2.2	1.0	2.2	0.788	--
90	HCC-1A	2101	2101S	subtidal	1	4.2	U	2.1	1.0	2.1	0.742	--
91	HCC-1B	3212	3212I	intertidal	2	2.1		2.1	1.0	2.1	0.742	--
92	HCC-1A	4111	4111S	subtidal	1	4.1	U	2.1	1.0	2.1	0.718	--
93	HCC-1A	3105	3105S	subtidal	1	4.0	U	2.0	1.0	2.0	0.693	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-28. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethane (DDD) in Hylebos Waterway. Threshold = 16 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
94	HCC-1B	3214	3214I	intertidal	2	2.0		2.0	1.0	2.0	0.693	--
95	Co-Trustee	HY-01	00456	subtidal	1	2		2.0	1.0	2.0	0.693	--
96	HCC-1B	4208	4208I	intertidal	3	3.95	M(4)	2.0	1.0	2.0	0.681	--
97	HCC-1A	1102	1102S	subtidal	1	3.6	U	1.8	1.0	1.8	0.588	--
98	HCC-1A	4104	4104S	subtidal	1	3.4	U	1.7	1.0	1.7	0.531	--
99	Co-Trustee	HY-27	00235	subtidal	1	1.7		1.7	1.0	1.7	0.531	--
100	HCC-1B	1211	1211I	intertidal	2	1.6		1.6	1.0	1.6	0.470	--
101	HCC-1C	5215	5215 I	intertidal	2	3.2	U	1.6	1.0	1.6	0.470	--
102	HCC-1C	1126	1126 S	subtidal	1	3.1	U	1.6	1.0	1.6	0.438	--
103	Co-Trustee	HY-07	00352	subtidal	1	1.4		1.4	1.0	1.4	0.336	--
104	HCC-1C	1123	1123 S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
105	HCC-1B	1203	1203I	intertidal	7	2.4	U	1.2	1.0	1.2	0.182	--
106	HCC-1A	2102	2102S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
107	HCC-1A	4110	4110S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
108	HCC-1A	4115	4115S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
109	HCC-1C	4119	4119 S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
110	HCC-1A	2111	2111S	subtidal	1	2.3	U	1.2	1.0	1.2	0.140	--
111	HCC-1A	3106	3106S	subtidal	1	2.1	U	1.1	1.0	1.1	0.049	--
112	HCC-1A	4106	4106S	subtidal	1	2.1	U	1.1	1.0	1.1	0.049	--
113	HCC-1C	3108		subtidal	1	2	UM	1.0	1.0	1.0	0.000	--
114	HCC-1C	4118	4118 S	subtidal	1	2	U	1.0	1.0	1.0	0.000	--
115	HCC-1C	5121	5121 S	subtidal	1	2	U	1.0	1.0	1.0	0.000	--
116	HCC-1B	1201		intertidal	2	1.9	UM(4)	1.0	1.0	1.0	0.000**	--
117	HCC-1A	5110	5110S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
118	HCC-1A	5114	5114S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
119	HCC-1A	5116	5116S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
120	HCC-1C	5120	5120 S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
121	HCC-1A	1106	1106S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
122	HCC-1A	1113	1113S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
123	HCC-1A	2110	2110S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
124	HCC-1A	3101	3101S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
125	HCC-1A	3102	3102S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
126	HCC-1B	3210	3210I	intertidal	2	1.8	U	0.9	1.0	0.9	0.000**	--
127	HCC-1B	3213	3213I	intertidal	2	1.8	U	0.9	1.0	0.9	0.000**	--
128	HCC-1A	4103	4103S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
129	HCC-1A	5106	5106S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
130	HCC-1A	1110	1110S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
131	HCC-1B	3204	3204I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
132	HCC-1B	3209	3209I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
133	HCC-1A	4107	4107S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
134	HCC-1B	4205	4205I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
135	HCC-1A	5104	5104S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
136	HCC-1A	5109	5109S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
137	HCC-1A	5111	5111S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
138	HCC-1A	5107		subtidal	1	1.7	UM(4)	0.8	1.0	0.8	0.000**	--
139	HCC-1A	3103	3103S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
140	HCC-1A	3104	3104S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-28. Sampling data used to map injury footprints for Dichloro-diphenyl-dichloroethane (DDD) in Hylebos Waterway. Threshold = 16 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
141	HCC-1B	4210	4210I	intertidal	3	1.6	U	0.8	1.0	0.8	0.000**	--
142	HCC-1A	5101	5101S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
143	HCC-1A	5102	5102S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
144	HCC-1B	1206	1206I	intertidal	4	1.5	U	0.8	1.0	0.8	0.000**	--
145	HCC-1B	1209	1209I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
146	HCC-1B	1213	1213I	intertidal	4	1.5	U	0.8	1.0	0.8	0.000**	--
147	HCC-1B	3205	3205I	intertidal	2	1.5	U	0.8	1.0	0.8	0.000**	--
148	HCC-1B	3217	3217I	intertidal	2	1.5	U	0.8	1.0	0.8	0.000**	--
149	HCC-1B	3219	3219I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
150	HCC-1C	1119	1119 S	subtidal	1	1.4	U	0.7	1.0	0.7	0.000**	--
151	HCC-1B	1216	1216I	intertidal	3	1.4	U	0.7	1.0	0.7	0.000**	--
152	HCC-1B	2202	2202I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
153	HCC-1B	2204	2204I	intertidal	4	1.4	U	0.7	1.0	0.7	0.000**	--
154	HCC-1B	2208	2208I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
155	HCC-1B	2209	2209I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
156	HCC-1B	3211	3211I	intertidal	4	1.4	U	0.7	1.0	0.7	0.000**	--
157	HCC-1A	4102	4102S	subtidal	1	1.4	U	0.7	1.0	0.7	0.000**	--
158	HCC-1A	4108	4108S	subtidal	1	1.4	U	0.7	1.0	0.7	0.000**	--
159	HCC-1B	4201	4201I	intertidal	4	1.4	U	0.7	1.0	0.7	0.000**	--
160	HCC-1B	4206	4206I	intertidal	3	1.4	U	0.7	1.0	0.7	0.000**	--
161	HCC-1B	1202	1202I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
162	HCC-1B	1204	1204I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
163	HCC-1B	1210	1210I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
164	HCC-1B	1214	1214I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
165	HCC-1B	1215	1215I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
166	HCC-1B	1217	1217I	intertidal	5	1.3	U	0.7	1.0	0.7	0.000**	--
167	HCC-1B	2207	2207I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
168	HCC-1B	2210	2210I	intertidal	5	1.3	U	0.7	1.0	0.7	0.000**	--
169	HCC-1B	2213	2213I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
170	HCC-1B	3203	3203I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
171	HCC-1B	3207	3207I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
172	HCC-1B	3220	3220I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
173	HCC-1B	4202	4202I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
174	HCC-1B	4203	4203I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
175	HCC-1B	5201	5201I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
176	HCC-1B	5212	5212I	intertidal	6	1.3	U	0.7	1.0	0.7	0.000**	--
177	HCC-1B	5213	5213I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
178	HCC-1B	3201		intertidal	4	1.3	UM(4)	0.6	1.0	0.6	0.000**	--
179	HCC-1B	3206	3206I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
180	HCC-1B	3221	3221I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
181	HCC-1B	4204	4204I	intertidal	4	1.2	U	0.6	1.0	0.6	0.000**	--
182	HCC-1B	4207	4207I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
183	HCC-1B	5205	5205I	intertidal	2	1.2	U	0.6	1.0	0.6	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-29. Sampling data used to map injury footprints for Dichloro-diphenyl-trichloroethylene (DDT) in Hylebos Waterway. Threshold=12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
1	HCC-1B	5211	5211I	intertidal	2	2700	U	1350.0	1.0	1,350.0	7.208	15%
2	HCC-1B	5209	5209I	intertidal	5	2200	U	1100.0	1.0	1,100.0	7.003	15%
3	HCC-1B	5210	5210SM	intertidal	2	2000	U	1000.0	1.0	1,000.0	6.908	15%
4	HCC-1C	2113	2113 S	subtidal	1	430		430.0	1.0	430.0	6.064	10%
5	HCC-1B	2206	2206I	intertidal	6	370		370	1.0	370.0	5.914	10%
6	HCC-1C	2114	2114 S	subtidal	1	330		330.0	1.0	330.0	5.799	10%
7	HCC-1B	5203	5203I	intertidal	2	360	U	180.0	1.0	180.0	5.193	10%
8	HCC-1B	5206	5206I	intertidal	2	110	U	55.0	1.0	55.0	4.007	10%
9	HCC-1A	2107	2107S	subtidal	1	51	J	51	1.0	51.0	3.932	10%
10	HCC-1B	5208	5208I	intertidal	2	92	U	46.0	1.0	46.0	3.829	10%
11	HCC-1A	2104	2104S	subtidal	1	45	J	45	1.0	45.0	3.807	5%
12	HCC-1A	2109	2109S	subtidal	1	31		31	1.0	31.0	3.434	5%
13	HCC-1B	2205	2205I	intertidal	3	30		30	1.0	30.0	3.401	5%
14	HCC-1B	5207	5207I	intertidal	2	47	U	23.5	1.0	23.5	3.157	5%
15	Co-Trustee	HY-21	00136	subtidal	1	19		19.0	1.0	19.0	2.944	5%
16	HCC-1B	3215	3215I	intertidal	2	14		14	1.0	14.0	2.639	5%
17	HCC-1C	4116	4116 S	subtidal	1	14		14.0	1.0	14.0	2.639	5%
18	HCC-1C	4117	4117 S	subtidal	1	28	U	14.0	1.0	14.0	2.639	5%
19	HCC-1B	2211	2211I	intertidal	2	26	U	13.0	1.0	13.0	2.565	5%
20	HCC-1B	4208	4208I	intertidal	3	22	U	11.0	1.0	11.0	2.398	--
21	HCC-1A	5108	5108S	subtidal	1	22	U	11.0	1.0	11.0	2.398	--
22	HCC-1A	4109		subtidal	1	20	J	10.0	1.0	10.0	2.303	--
23	HCC-1C	1133	1133 S	subtidal	1	8.8		8.8	1.0	8.8	2.175	--
24	HCC-1C	1125	1125 S	subtidal	1	8.5		8.5	1.0	8.5	2.140	--
25	HCC-1A	2105	2105S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
26	HCC-1C	4118	4118 S	subtidal	1	16	U	8.0	1.0	8.0	2.079	--
27	Co-Trustee	HY-20	00127	subtidal	1	7.6		7.6	1.0	7.6	2.028	--
28	HCC-1A	2110	2110S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
29	HCC-1A	4101	4101S	subtidal	1	15	U	7.5	1.0	7.5	2.015	--
30	HCC-1C	1117	1117 S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
31	HCC-1A	2103	2103S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
32	HCC-1A	2108	2108S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
33	HCC-1A	3104	3104S	subtidal	1	14	U	7.0	1.0	7.0	1.946	--
34	HCC-1B	5212	5212I	intertidal	6	7.0		7.0	1.0	7.0	1.946	--
35	HCC-1C	2115	2115 S	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
36	HCC-1C	3107	3107 S	subtidal	1	13	U	6.5	1.0	6.5	1.872	--
37	HCC-1B	4209	4209I	intertidal	2	13	U	6.5	1.0	6.5	1.872	--
38	Co-Trustee	HY-02	00443	subtidal	1	6.5		6.5	1.0	6.5	1.872	--
39	HCC-1A	1102	1102S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
40	HCC-1A	5116	5116S	subtidal	1	12	U	6.0	1.0	6.0	1.792	--
41	Co-Trustee	HY-15	00031	subtidal	1	5.7		5.7	1.0	5.7	1.740	--
42	HCC-1A	2106	2106S	subtidal	1	11	U	5.5	1.0	5.5	1.705	--
43	HCC-1B	4205	4205I	intertidal	3	11	U	5.5	1.0	5.5	1.705	--
44	HCC-1A	5105	5105S	subtidal	1	11	U	5.5	1.0	5.5	1.705	--
45	Co-Trustee	HY-19		subtidal	1	5.3	M(3)	5.3	1.0	5.3	1.674	--
46	Co-Trustee	HY-18	00082	subtidal	1	5.1		5.1	1.0	5.1	1.629	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

3/13/02

Table D-29. Sampling data used to map injury footprints for Dichloro-diphenyl-trichloroethylene (DDT) in Hylebos Waterway. Threshold=12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
47	HCC-1C	3110	3110 S	subtidal	1	9.7	U	4.9	1.0	4.9	1.579	--
48	HCC-1A	4106	4106S	subtidal	1	8.9	U	4.5	1.0	4.5	1.493	--
49	HCC-1A	1101		subtidal	1	8.63	UM(4)	4.3	1.0	4.3	1.462	--
50	HCC-1B	2210	2210I	intertidal	5	8.4	U	4.2	1.0	4.2	1.435	--
51	HCC-1A	1107	1107S	subtidal	1	7.8	U	3.9	1.0	3.9	1.361	--
52	HCC-1C	1119	1119 S	subtidal	1	7.8	U	3.9	1.0	3.9	1.361	--
53	HCC-1C	1126	1126 S	subtidal	1	7.8	U	3.9	1.0	3.9	1.361	--
54	HCC-1A	5115	5115S	subtidal	1	7.8	U	3.9	1.0	3.9	1.361	--
55	HCC-1A	2101	2101S	subtidal	1	7.7	U	3.9	1.0	3.9	1.348	--
56	HCC-1C	4120	4120 S	subtidal	1	7.7	U	3.9	1.0	3.9	1.348	--
57	HCC-1A	5113	5113S	subtidal	1	7.6	U	3.8	1.0	3.8	1.335	--
58	HCC-1A	4107	4107S	subtidal	1	7.3	U	3.7	1.0	3.7	1.295	--
59	HCC-1A	1105	1105S	subtidal	1	7.2	U	3.6	1.0	3.6	1.281	--
60	HCC-1A	2111	2111S	subtidal	1	7.2	U	3.6	1.0	3.6	1.281	--
61	HCC-1A	5114	5114S	subtidal	1	7.2	U	3.6	1.0	3.6	1.281	--
62	Co-Trustee	HY-23	00173	subtidal	1	3.5		3.5	1.0	3.5	1.253	--
63	HCC-1C	1122	1122 S	subtidal	1	6.9	U	3.5	1.0	3.5	1.238	--
64	HCC-1A	3105	3105S	subtidal	1	6.9	U	3.5	1.0	3.5	1.238	--
65	HCC-1A	1112	1112S	subtidal	1	6.7	U	3.4	1.0	3.4	1.209	--
66	HCC-1C	1123	1123 S	subtidal	1	6.7	U	3.4	1.0	3.4	1.209	--
67	HCC-1B	2204	2204I	intertidal	4	6.6	U	3.3	1.0	3.3	1.194	--
68	Co-Trustee	HY-16	00044	subtidal	1	3.2	M(2)	3.2	1.0	3.2	1.163	--
69	HCC-1A	1106	1106S	subtidal	1	6.3	U	3.2	1.0	3.2	1.147	--
70	HCC-1C	1121	1121 S	subtidal	1	6.2	U	3.1	1.0	3.1	1.131	--
71	HCC-1B	2214	2214I	intertidal	2	6.2	U	3.1	1.0	3.1	1.131	--
72	HCC-1B	5214	5214I	intertidal	6	3.0		3.0	1.0	3.0	1.099	--
73	HCC-1A	1108	1108S	subtidal	1	5.9	U	3.0	1.0	3.0	1.082	--
74	Co-Trustee	HY-06		subtidal	1	2.9	M(2)	2.9	1.0	2.9	1.065	--
75	Co-Trustee	HY-12	00275	subtidal	1	2.9		2.9	1.0	2.9	1.065	--
76	Co-Trustee	HY-25	00204	subtidal	1	2.8		2.8	1.0	2.8	1.030	--
77	HCC-1B	3216	3216I	intertidal	3	5.5	U	2.8	1.0	2.8	1.012	--
78	HCC-1A	1109	1109S	subtidal	1	5.4	U	2.7	1.0	2.7	0.993	--
79	HCC-1B	1212	1212I	intertidal	2	5.4	U	2.7	1.0	2.7	0.993	--
80	Co-Trustee	HY-10	00326	subtidal	1	2.7		2.7	1.0	2.7	0.993	--
81	HCC-1A	4104	4104S	subtidal	1	5.3	U	2.7	1.0	2.7	0.975	--
82	HCC-1A	5112	5112S	subtidal	1	5.3	U	2.7	1.0	2.7	0.975	--
83	HCC-1C	3109	3109 S	subtidal	1	5.2	U	2.6	1.0	2.6	0.956	--
84	HCC-1A	1111	1111S	subtidal	1	5.1	U	2.6	1.0	2.6	0.936	--
85	HCC-1B	1201		intertidal	2	5.1	U	2.6	1.0	2.6	0.936	--
86	HCC-1B	2212	2212I	intertidal	3	5.1	U	2.6	1.0	2.6	0.936	--
87	Co-Trustee	HY-24	00191	subtidal	1	2.5		2.5	1.0	2.5	0.916	--
88	Co-Trustee	HY-28	00256	subtidal	1	2.5	M(3)	2.5	1.0	2.5	0.903	--
89	HCC-1C	5121	5121 S	subtidal	1	4.8	U	2.4	1.0	2.4	0.875	--
90	Co-Trustee	HY-26	00217	subtidal	1	2.4		2.4	1.0	2.4	0.875	--
91	HCC-1C	1118	1118 S	subtidal	1	4.6	U	2.3	1.0	2.3	0.833	--
92	HCC-1A	5104	5104S	subtidal	1	4.6	U	2.3	1.0	2.3	0.833	--
93	HCC-1C	5215	5215 I	intertidal	2	4.6	U	2.3	1.0	2.3	0.833	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-29. Sampling data used to map injury footprints for Dichloro-diphenyl-trichloroethylene (DDT) in Hylebos Waterway. Threshold=12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
94	HCC-1A	5101	5101S	subtidal	1	4.5	U	2.3	1.0	2.3	0.811	--
95	Co-Trustee	HY-11	00295	subtidal	1	2.2		2.2	1.0	2.2	0.788	--
96	Co-Trustee	HY-27	00235	subtidal	1	2.2		2.2	1.0	2.2	0.788	--
97	HCC-1A	1110	1110S	subtidal	1	4.3	U	2.2	1.0	2.2	0.765	--
98	HCC-1A	5106	5106S	subtidal	1	4.3	U	2.2	1.0	2.2	0.765	--
99	HCC-1B	5202	5202I	intertidal	6	4.3	U	2.2	1.0	2.2	0.765	--
100	HCC-1A	5107		subtidal	1	4	UM(4)	2.1	1.0	2.1	0.760	--
101	HCC-1A	1103	1103S	subtidal	1	4.2	U	2.1	1.0	2.1	0.742	--
102	HCC-1A	5103	5103S	subtidal	1	4.2	U	2.1	1.0	2.1	0.742	--
103	Co-Trustee	HY-22	00156	subtidal	1	2.1		2.1	1.0	2.1	0.742	--
104	HCC-1A	4115	4115S	subtidal	1	4.1	U	2.1	1.0	2.1	0.718	--
105	HCC-1B	3211	3211I	intertidal	4	2.0		2.0	1.0	2.0	0.693	--
106	HCC-1C	2112	2112 S	subtidal	1	3.9	U	2.0	1.0	2.0	0.668	--
107	HCC-1B	3210	3210I	intertidal	2	3.9	U	2.0	1.0	2.0	0.668	--
108	HCC-1C	1120	1120 S	subtidal	1	3.8	U	1.9	1.0	1.9	0.642	--
109	HCC-1A	4103	4103S	subtidal	1	3.8	U	1.9	1.0	1.9	0.642	--
110	HCC-1C	1124	1124 S	subtidal	1	3.7	U	1.9	1.0	1.9	0.615	--
111	HCC-1B	2207	2207I	intertidal	2	1.8		1.8	1.0	1.8	0.588	--
112	HCC-1B	3214	3214I	intertidal	2	3.4	U	1.7	1.0	1.7	0.531	--
113	HCC-1A	3102	3102S	subtidal	1	3.3	U	1.7	1.0	1.7	0.501	--
114	HCC-1A	3106	3106S	subtidal	1	3.2	U	1.6	1.0	1.6	0.470	--
115	HCC-1B	4206	4206I	intertidal	3	3.2	U	1.6	1.0	1.6	0.470	--
116	Co-Trustee	HY-17	00062	subtidal	1	1.6		1.6	1.0	1.6	0.470	--
117	HCC-1A	4111	4111S	subtidal	1	3.1	U	1.6	1.0	1.6	0.438	--
118	HCC-1B	1210	1210I	intertidal	2	3.0	U	1.5	1.0	1.5	0.405	--
119	Co-Trustee	HY-04	00420	subtidal	1	1.5		1.5	1.0	1.5	0.405	--
120	HCC-1B	5205	5205I	intertidal	2	2.9	U	1.5	1.0	1.5	0.372	--
121	HCC-1B	3205	3205I	intertidal	2	2.8	U	1.4	1.0	1.4	0.336	--
122	HCC-1A	2102	2102S	subtidal	1	2.5	U	1.3	1.0	1.3	0.223	--
123	HCC-1B	1216	1216I	intertidal	3	2.4	U	1.2	1.0	1.2	0.182	--
124	HCC-1A	4110	4110S	subtidal	1	2.4	U	1.2	1.0	1.2	0.182	--
125	HCC-1B	1208	1208I	intertidal	2	2.3	U	1.2	1.0	1.2	0.140	--
126	HCC-1C	4119	4119 S	subtidal	1	2.1	U	1.1	1.0	1.1	0.049	--
127	HCC-1A	1104	1104S	subtidal	1	2	U	1.0	1.0	1.0	0.000	--
128	HCC-1C	3108		subtidal	1	2	UM	1.0	1.0	1.0	0.000	--
129	Co-Trustee	HY-14	00020	subtidal	1	0.96		1.0	1.0	1.0	0.000**	--
130	HCC-1B	1207	1207I	intertidal	2	1.9	U	1.0	1.0	1.0	0.000**	--
131	HCC-1A	4105	4105S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
132	HCC-1A	5110	5110S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
133	HCC-1C	5120	5120 S	subtidal	1	1.9	U	1.0	1.0	1.0	0.000**	--
134	HCC-1A	1113	1113S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
135	HCC-1A	3101	3101S	subtidal	1	1.8	U	0.9	1.0	0.9	0.000**	--
136	HCC-1B	3213	3213I	intertidal	2	1.8	U	0.9	1.0	0.9	0.000**	--
137	HCC-1B	3204	3204I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
138	HCC-1B	3209	3209I	intertidal	3	1.7	U	0.9	1.0	0.9	0.000**	--
139	HCC-1B	3212	3212I	intertidal	2	1.7	U	0.9	1.0	0.9	0.000**	--
140	HCC-1A	5109	5109S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-29. Sampling data used to map injury footprints for Dichloro-diphenyl-trichloroethylene (DDT) in Hylebos Waterway. Threshold=12 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc.	Adj. Factor	Adjusted Conc.	Ln Conc.	Injury Level
141	HCC-1A	5111	5111S	subtidal	1	1.7	U	0.9	1.0	0.9	0.000**	--
142	HCC-1B	2215	2215I	intertidal	7	1.6	U	0.8	1.0	0.8	0.000**	--
143	HCC-1A	3103	3103S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
144	HCC-1B	4210	4210I	intertidal	3	1.6	U	0.8	1.0	0.8	0.000**	--
145	HCC-1A	5102	5102S	subtidal	1	1.6	U	0.8	1.0	0.8	0.000**	--
146	HCC-1B	1203	1203I	intertidal	7	1.5	U	0.8	1.0	0.8	0.000**	--
147	HCC-1B	1206	1206I	intertidal	4	1.5	U	0.8	1.0	0.8	0.000**	--
148	HCC-1B	1209	1209I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
149	HCC-1B	1211	1211I	intertidal	2	1.5	U	0.8	1.0	0.8	0.000**	--
150	HCC-1B	1213	1213I	intertidal	4	1.5	U	0.8	1.0	0.8	0.000**	--
151	HCC-1B	3217	3217I	intertidal	2	1.5	U	0.8	1.0	0.8	0.000**	--
152	HCC-1B	3219	3219I	intertidal	3	1.5	U	0.8	1.0	0.8	0.000**	--
153	HCC-1A	4102	4102S	subtidal	1	1.5	U	0.8	1.0	0.8	0.000**	--
154	HCC-1B	3201		intertidal	4	1.48	UM(4)	0.7	1.0	0.7	0.000**	--
155	Co-Trustee	HY-03	00426	subtidal	1	0.7	M(3)	0.7	1.0	0.7	0.000**	--
156	HCC-1B	2202	2202I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
157	HCC-1B	2208	2208I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
158	HCC-1B	2209	2209I	intertidal	2	1.4	U	0.7	1.0	0.7	0.000**	--
159	HCC-1A	4108	4108S	subtidal	1	1.4	U	0.7	1.0	0.7	0.000**	--
160	HCC-1B	4201	4201I	intertidal	4	1.4	U	0.7	1.0	0.7	0.000**	--
161	HCC-1B	1202	1202I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
162	HCC-1B	1204	1204I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
163	HCC-1B	1214	1214I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
164	HCC-1B	1215	1215I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
165	HCC-1B	1217	1217I	intertidal	5	1.3	U	0.7	1.0	0.7	0.000**	--
166	HCC-1B	2213	2213I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
167	HCC-1B	3203	3203I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
168	HCC-1B	3207	3207I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
169	HCC-1B	3220	3220I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
170	HCC-1B	4202	4202I	intertidal	3	1.3	U	0.7	1.0	0.7	0.000**	--
171	HCC-1B	4203	4203I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
172	HCC-1B	5201	5201I	intertidal	2	1.3	U	0.7	1.0	0.7	0.000**	--
173	HCC-1B	5213	5213I	intertidal	4	1.3	U	0.7	1.0	0.7	0.000**	--
174	HCC-1B	3206	3206I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
175	HCC-1B	3221	3221I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
176	HCC-1B	4204	4204I	intertidal	4	1.2	U	0.6	1.0	0.6	0.000**	--
177	HCC-1B	4207	4207I	intertidal	3	1.2	U	0.6	1.0	0.6	0.000**	--
178	Co-Trustee	HY-09	00348	subtidal	1	0.52		0.5	1.0	0.5	0.000**	--
179	Co-Trustee	HY-05	00380	subtidal	1	0.36		0.4	1.0	0.4	0.000**	--
180	Co-Trustee	HY-13	00012	subtidal	1	0.28		0.3	1.0	0.3	0.000**	--
181	Co-Trustee	HY-01	00456	subtidal	1	0.074	U	0.0	1.0	0.0	0.000**	--
182	Co-Trustee	HY-08	00313	subtidal	1	0.072	U	0.0	1.0	0.0	0.000**	--
183	Co-Trustee	HY-07	00352	subtidal	1	0.055	U	0.0	1.0	0.0	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix D for explanation.

**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers.

Table D-30. Sampling data used to map injury footprints for Polychlorinated Biphenyls (PCBs) in Hylebos Waterway. Threshold = 130 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. Aroclor 1254 ppb	Qual. Code	Reported Conc. Aroclor 1260 ppb	Qual. Code	Total PCBs	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	5209	5209I	intertidal	5	27000	U	31000	J	44500	1	44,500	10.7032	80%
2	HCC-1B	5203	5203I	intertidal	2	1100	U	24000		24550	1	24,550	10.1085	80%
3	HCC-1B	5211	5211I	intertidal	2	21000	U	21000	U	21000	1	21,000	9.9523	80%
4	HCC-1B	5210	5210SM	intertidal	2	17000	U	22000	U	19500	1	19,500	9.8782	80%
5	HCC-1B	5208	5208I	intertidal	2	4600	U	3700	U	4150	1	4,150	8.3309	60%
6	HCC-1B	5206	5206I	intertidal	2	1100	U	3100		3650	1	3,650	8.2025	40%
7	HCC-1C	4117	4117 S	subtidal	1	300	J	2600		2900	1	2,900	7.9725	40%
8	HCC-1C	4118	4118 S	subtidal	1	110	U	2800		2855	1	2,855	7.9568	40%
9	HCC-1C	3112	3112 S	subtidal	1	630		760		1390	1.7	2,363	7.7677	40%
10	HCC-1B	4205	4205I	intertidal	3	530		840		1370	1.7	2,329	7.7532	40%
11	HCC-1B	5207	5207I	intertidal	2	860	U	860	J	1290	1.7	2,193	7.6930	40%
12	HCC-1A	4106	4106S	subtidal	1	110	J	1100		1210	1.7	2,057	7.6290	40%
13	HCC-1C	2113	2113 S	subtidal	1	1700		400	U	1900	1	1,900	7.5496	40%
14	HCC-1B	4204	4204I	intertidal	4	12	U	1800		1806	1	1,806	7.4989	40%
15	HCC-1C	2114	2114 S	subtidal	1	630		600	U	930	1.7	1,581	7.3658	40%
16	HCC-1A	5109	5109S	subtidal	1	480		440		920	1.7	1,564	7.3550	40%
17	HCC-1B	2211	2211I	intertidal	2	530		340		870	1.7	1,479	7.2991	20%
18	HCC-1B	2206	2206I	intertidal	6	240	U	600	J	720	1.7	1,224	7.1099	20%
19	HCC-1A	2102	2102S	subtidal	1	290		290		580	1.7	986	6.8937	20%
20	HCC-1A	4107	4107S	subtidal	1	150		410		560	1.7	952	6.8586	20%
21	HCC-1A	4104	4104S	subtidal	1	90	U	500	J	545	1.7	927	6.8314	20%
22	HCC-1B	2205	2205I	intertidal	3	420	J	110	J	530	1.7	901	6.8035	20%
23	HCC-1A	5108	5108S	subtidal	1	230		300		530	1.7	901	6.8035	20%
24	HCC-1A	5111	5111S	subtidal	1	130	J	370	J	500	1.7	850	6.7452	20%
25	Co-Trustee	HY-08	00313	subtidal	1				M(3)	790	1	790	6.6720	20%
26	HCC-1A	2111	2111S	subtidal	1	320		130	J	450	1.7	765	6.6399	20%
27	HCC-1A	4101	4101S	subtidal	1	210		230	J	440	1.7	748	6.6174	20%
28	HCC-1C	2112	2112 S	subtidal	1	290		140		430	1.7	731	6.5944	20%
29	HCC-1A	2107	2107S	subtidal	1	240		170		410	1.7	697	6.5468	20%
30	Co-Trustee	HY-17	00062	subtidal	1					650	1	650	6.4770	20%
31	Co-Trustee	HY-19		subtidal	1					643	1	643	6.4667	20%
32	HCC-1C	2115	2115 S	subtidal	1	250		140		390	1.7	663	6.4968	20%
33	HCC-1A	3104	3104S	subtidal	1	230		160		390	1.7	663	6.4968	20%
34	HCC-1A	2104	2104S	subtidal	1	200		180	J	380	1.7	646	6.4708	20%
35	Co-Trustee	HY-20	00127	subtidal	1					600	1	600	6.3969	20%
36	Co-Trustee	HY-21	00136	subtidal	1				M(2)	600	1	600	6.3969	20%
37	HCC-1A	2105	2105S	subtidal	1	230		140		370	1.7	629	6.4441	20%
38	HCC-1A	5113	5113S	subtidal	1	140		230		370	1.7	629	6.4441	20%
39	HCC-1A	5116	5116S	subtidal	1	96	J	270	J	366	1.7	622	6.4333	20%
40	Co-Trustee	HY-18	00082	subtidal	1					580	1	580	6.3630	20%
41	HCC-1A	4109		subtidal	1	126	JM(4)	232.5	JM(4)	359	1.7	609	6.4126	20%
42	HCC-1A	2106	2106S	subtidal	1	230		120		350	1.7	595	6.3886	20%
43	HCC-1B	5205	5205I	intertidal	2	160		190		350	1.7	595	6.3886	20%
44	HCC-1A	2108	2108S	subtidal	1	220		120		340	1.7	578	6.3596	20%
45	HCC-1A	3105	3105S	subtidal	1	200		140		340	1.7	578	6.3596	20%
46	HCC-1A	5105	5105S	subtidal	1	130		210		340	1.7	578	6.3596	20%
47	Co-Trustee	HY-23	00173	subtidal	1					530	1	530	6.2729	20%
48	Co-Trustee	HY-16	00044	subtidal	1					515	1	515	6.2442	20%
49	HCC-1A	2103	2103S	subtidal	1	190		130		320	1.7	544	6.2989	20%
50	HCC-1C	2116	2116 S	subtidal	1	220		100	J	320	1.7	544	6.2989	20%
51	HCC-1C	3110	3110 S	subtidal	1	180		140		320	1.7	544	6.2989	20%
52	Co-Trustee	HY-25	00204	subtidal	1					510	1	510	6.2344	20%
53	HCC-1A	5112	5112S	subtidal	1	97		220		317	1.7	539	6.2895	20%
54	Co-Trustee	HY-06		subtidal	1					503	1	503	6.2213	20%
55	HCC-1A	3106	3106S	subtidal	1	190		120	J	310	1.7	527	6.2672	20%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-30. Sampling data used to map injury footprints for Polychlorinated Biphenyls (PCBs) in Hylebos Waterway. Threshold = 130 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. Aroclor 1254 ppb	Qual. Code	Reported Conc. Aroclor 1260 ppb	Qual. Code	Total PCBs	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
56	HCC-1A	5106	5106S	subtidal	1	90		220		310	1.7	527	6.2672	20%
57	HCC-1B	2212	2212I	intertidal	3	200		100	J	300	1.7	510	6.2344	20%
58	HCC-1B	3214	3214I	intertidal	2	210		87		297	1.7	505	6.2244	20%
59	Co-Trustee	HY-10	00326	subtidal	1					470	1	470	6.1527	20%
60	Co-Trustee	HY-24	00191	subtidal	1				M(3)	470	1	470	6.1527	20%
61	Co-Trustee	HY-26	00217	subtidal	1					450	1	450	6.1092	20%
62	HCC-1B	3216	3216I	intertidal	3	120		150		270	1.7	459	6.1291	20%
63	HCC-1A	4115	4115S	subtidal	1	88		180		268	1.7	456	6.1216	20%
64	Co-Trustee	HY-15	00031	subtidal	1					410	1	410	6.0162	20%
65	Co-Trustee	HY-22	00156	subtidal	1					410	1	410	6.0162	20%
66	HCC-1C	3113	3113 S	subtidal	1	150		100	J	250	1.7	425	6.0521	20%
67	Co-Trustee	HY-12	00275	subtidal	1					410	1	410	6.0162	20%
68	HCC-1A	4111	4111S	subtidal	1	69	U	210		245	1.7	416	6.0298	20%
69	Co-Trustee	HY-11	00295	subtidal	1				M(3)	390	1	390	5.9661	20%
70	HCC-1B	4206	4206I	intertidal	3	120		120		240	1.7	408	6.0113	20%
71	HCC-1A	5115	5115S	subtidal	1	69	J	170	J	239	1.7	406	6.0071	20%
72	Co-Trustee	HY-27	00235	subtidal	1					370	1	370	5.9135	20%
73	HCC-1A	1102	1102S	subtidal	1	150		75		225	1.7	383	5.9467	20%
74	HCC-1A	2110	2110S	subtidal	1	150		73	J	223	1.7	379	5.9378	20%
75	HCC-1B	2215	2215I	intertidal	7	160		61		221	1.7	376	5.9288	20%
76	Co-Trustee	HY-05	00380	subtidal	1					350	1	350	5.8579	20%
77	HCC-1A	4110	4110S	subtidal	1	68		150		218	1.7	371	5.9151	20%
78	HCC-1B	3205	3205I	intertidal	2	130		86		216	1.7	367	5.9059	20%
79	HCC-1A	3101	3101S	subtidal	1	75		140	J	215	1.7	366	5.9013	20%
80	HCC-1B	4208	4208I	intertidal	3	158	M	58	M(4)	215	1.7	366	5.9013	20%
81	HCC-1C	3111	3111 S	subtidal	1	91		120		211	1.7	359	5.8825	20%
82	HCC-1C	3109	3109 S	subtidal	1	120		90		210	1.7	357	5.8777	20%
83	HCC-1A	2101	2101S	subtidal	1	130		78		208	1.7	354	5.8682	20%
84	HCC-1A	2109	2109S	subtidal	1	140		68		208	1.7	354	5.8682	20%
85	HCC-1C	4120	4120 S	subtidal	1	88		120		208	1.7	354	5.8682	20%
86	HCC-1B	5202	5202I	subtidal	6	68		140		208	1.7	354	5.8682	20%
87	Co-Trustee	HY-02	00443	subtidal	1					330	1	330	5.7991	20%
88	HCC-1A	1101		subtidal	1	150	M(4)	53	JM(4)	203	1.7	345	5.8438	20%
89	Co-Trustee	HY-28	00256	subtidal	1					313	1	313	5.7473	20%
90	HCC-1B	2214	2214I	intertidal	2	110		78	J	188	1.7	320	5.7671	20%
91	HCC-1C	3107	3107 S	subtidal	1	86		98	J	184	1.7	313	5.7456	20%
92	HCC-1B	5212	5212I	intertidal	6	73		110	J	183	1.7	311	5.7401	20%
93	HCC-1C	4116	4116 S	subtidal	1	81		97	J	178	1.7	303	5.7124	20%
94	Co-Trustee	HY-07	00352	subtidal	1					280	1	280	5.6348	20%
95	HCC-1B	4209	4209I	intertidal	2	120		52	J	172	1.7	292	5.6781	20%
96	HCC-1B	2204	2204I	intertidal	4	110		58	J	168	1.7	286	5.6546	20%
97	HCC-1A	5114	5114S	subtidal	1	48		120	J	168	1.7	286	5.6546	20%
98	HCC-1C	4119	4119 S	subtidal	1	87		80		167	1.7	284	5.6486	20%
99	HCC-1C	1117	1117 S	subtidal	1	100		130	U	165	1.7	281	5.6366	20%
100	HCC-1C	1133	1133 S	subtidal	1	100		56		156	1.7	265	5.5805	20%
101	HCC-1A	4105	4105S	subtidal	1	98		58	J	156	1.7	265	5.5805	20%
102	HCC-1A	5110	5110S	subtidal	1	45	J	110		155	1.7	264	5.5741	20%
103	HCC-1A	1103	1103S	subtidal	1	91		60		151	1.7	257	5.5479	20%
104	HCC-1C	1122	1122 S	subtidal	1	88		62		150	1.7	255	5.5413	20%
105	HCC-1A	1104	1104S	subtidal	1	120		58	U	149	1.7	253	5.5346	20%
106	HCC-1C	1125	1125 S	subtidal	1	95		54		149	1.7	253	5.5346	20%
107	HCC-1B	2202	2202I	intertidal	2	110	J	72	U	146	1.7	248	5.5142	20%
108	Co-Trustee	HY-09	00348	subtidal	1					230	1	230	5.4381	20%
109	Co-Trustee	HY-14	00020	subtidal	1					230	1	230	5.4381	20%
110	HCC-1C	5215	5215 I	intertidal	2	44		96		140	1.7	238	5.4723	20%
111	HCC-1B	2210	2210I	intertidal	5	76		62		138	1.7	235	5.4579	20%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-30. Sampling data used to map injury footprints for Polychlorinated Biphenyls (PCBs) in Hylebos Waterway. Threshold = 130 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. Aroclor 1254 ppb	Qual. Code	Reported Conc. Aroclor 1260 ppb	Qual. Code	Total PCBs	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
112	Co-Trustee	HY-04	00420	subtidal	1					220	1	220	5.3936	20%
113	HCC-1A	1107	1107S	subtidal	1	100		34		134	1.7	228	5.4285	20%
114	HCC-1A	4103	4103S	subtidal	1	42		92		134	1.7	228	5.4285	20%
115	HCC-1A	5107		subtidal	1	41	JM(4)	92	JM(4)	133	1.7	226	5.4210	20%
116	HCC-1C	1120	1120 S	subtidal	1	70		62		132	1.7	224	5.4134	20%
117	HCC-1B	3215	3215I	intertidal	2	100		64	U	132	1.7	224	5.4134	20%
118	HCC-1C	1127	1127 S	subtidal	1	90		38		128	1.7	218	5.3827	20%
119	HCC-1A	4108	4108S	subtidal	1	65		60		125	1.7	213	5.3589	20%
120	HCC-1A	1105	1105S	subtidal	1	84		40	J	124	1.7	211	5.3509	20%
121	HCC-1A	3102	3102S	subtidal	1	70		53		123	1.7	209	5.3428	20%
122	HCC-1C	1126	1126 S	subtidal	1	100		39	U	120	1.7	203	5.3139	20%
123	HCC-1B	3206	3206I	intertidal	3	83		36		119	1.7	202	5.3098	20%
124	HCC-1B	3210	3210I	intertidal	2	85		34	J	119	1.7	202	5.3098	20%
125	HCC-1B	3212	3212I	intertidal	2	61		57		118	1.7	201	5.3013	20%
126	HCC-1B	1201		intertidal	2	88	JM(4)	53	UM(4)	115	1.7	195	5.2734	20%
127	HCC-1B	1212	1212I	intertidal	2	100		14	U	107	1.7	182	5.2035	20%
128	Co-Trustee	HY-03	00426	subtidal	1					167	1	167	5.1160	5%
129	HCC-1A	1106	1106S	subtidal	1	62		35		97	1.7	165	5.1053	5%
130	HCC-1A	1112	1112S	subtidal	1	72		25	J	97	1.7	165	5.1053	5%
131	HCC-1B	3204	3204I	intertidal	3	53		44		97	1.7	165	5.1053	5%
132	Co-Trustee	HY-13	00012	subtidal	1					150	1	150	5.0106	5%
133	HCC-1A	5103	5103S	subtidal	1	30	J	63	J	93	1.7	158	5.0632	5%
134	HCC-1B	1203	1203I	intertidal	7	77		31	U	93	1.7	157	5.0578	5%
135	HCC-1B	3211	3211I	intertidal	4	68		29	U	83	1.7	140	4.9434	5%
136	HCC-1C	1124	1124 S	subtidal	1	42		34		76	1.7	129	4.8614	--
137	HCC-1A	5101	5101 S	subtidal	1	27		48		75	1.7	128	4.8481	--
138	HCC-1C	5121	5121 S	subtidal	1	28		46		74	1.7	126	4.8347	--
139	HCC-1A	1111	1111S	subtidal	1	54		37	U	73	1.7	123	4.8142	--
140	HCC-1A	1110	1110S	subtidal	1	48		24	J	72	1.7	122	4.8073	--
141	HCC-1A	1108	1108S	subtidal	1	59		21	U	70	1.7	118	4.7720	--
142	HCC-1A	1109	1109S	subtidal	1	40		25	J	65	1.7	111	4.7050	--
143	HCC-1C	1121	1121 S	subtidal	1	53		20	U	63	1.7	107	4.6738	--
144	HCC-1B	4210	4210I	intertidal	3	45		33	U	62	1.7	105	4.6497	--
145	Co-Trustee	HY-01	00456	subtidal	1					94	1	94	4.5433	--
146	HCC-1C	1119	1119 S	subtidal	1	48		19	U	58	1.7	98	4.5824	--
147	HCC-1B	4201	4201I	intertidal	4	41		27	U	55	1.7	93	4.5288	--
148	HCC-1C	1118	1118 S	subtidal	1	44		19	U	54	1.7	91	4.5103	--
149	HCC-1B	1208	1208I	intertidal	2	42	J	23	U	54	1.7	91	4.5103	--
150	HCC-1B	4203	4203I	intertidal	2	13	U	47	J	54	1.7	91	4.5103	--
151	HCC-1C	5120	5120 S	subtidal	1	26		25		51	1.7	87	4.4625	--
152	HCC-1A	5104	5104S	subtidal	1	25	J	50	U	50	1.7	85	4.4427	--
153	HCC-1B	5214	5214I	intertidal	6	42	J	13	U	49	1.7	82	4.4122	--
154	HCC-1B	3203	3203I	intertidal	2	34		27	U	48	1.7	81	4.3914	--
155	HCC-1A	4102	4102S	subtidal	1	17		28	J	45	1.7	77	4.3373	--
156	HCC-1B	2208	2208I	intertidal	2	27		28	U	41	1.7	70	4.2442	--
157	HCC-1B	1202	1202I	intertidal	4	26		27	U	40	1.7	67	4.2069	--
158	HCC-1B	2209	2209I	intertidal	2	30		14	U	37	1.7	63	4.1415	--
159	HCC-1B	1216	1216I	intertidal	3	21		28	U	35	1.7	60	4.0860	--
160	HCC-1B	1210	1210I	intertidal	2	28		13	U	35	1.7	59	4.0716	--
161	HCC-1B	1211	1211I	intertidal	2	27		15	U	35	1.7	59	4.0716	--
162	HCC-1B	5201	5201I	intertidal	2	14		38	U	33	1.7	56	4.0271	--
163	HCC-1B	3209	3209I	intertidal	3	24		17	U	33	1.7	55	4.0119	--
164	HCC-1A	5102	5102S	subtidal	1	32	U	32	U	32	1.7	54	3.9964	--
165	HCC-1B	1213	1213I	intertidal	4	24		15	U	32	1.7	54	3.9806	--
166	HCC-1B	3217	3217I	intertidal	2	24		15	U	32	1.7	54	3.9806	--
167	HCC-1B	3201		intertidal	4	19	M(4)	23	UM(4)	31	1.7	53	3.9633	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-30. Sampling data used to map injury footprints for Polychlorinated Biphenyls (PCBs) in Hylebos Waterway. Threshold = 130 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Reported Conc. Aroclor 1254 ppb	Qual. Code	Reported Conc. Aroclor 1260 ppb	Qual. Code	Total PCBs	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
168	HCC-1B	2213	2213I	intertidal	4	23		13	U	30	1.7	50	3.9150	--
169	HCC-1B	3219	3219I	intertidal	3	20		15	U	28	1.7	47	3.8448	--
170	HCC-1A	1113	1113S	subtidal	1	36	U	18	U	27	1.7	46	3.8265	--
171	HCC-1A	3103	3103S	subtidal	1	19		16	U	27	1.7	46	3.8265	--
172	HCC-1B	3213	3213I	intertidal	2	36	U	18	U	27	1.7	46	3.8265	--
173	HCC-1B	3221	3221I	intertidal	3	19		12	U	25	1.7	43	3.7495	--
174	HCC-1B	1217	1217I	intertidal	5	16		13	U	23	1.7	38	3.6441	--
175	HCC-1B	3207	3207I	intertidal	2	16		13	U	23	1.7	38	3.6441	--
176	HCC-1B	4202	4202I	intertidal	3	13	U	32	U	23	1.7	38	3.6441	--
177	HCC-1C	3108		subtidal	1	23	UM	20	UM	22	1.7	37	3.5987	--
178	HCC-1B	1215	1215I	intertidal	4	14		13	U	21	1.7	35	3.5511	--
179	HCC-1B	2207	2207I	intertidal	2	14		13	U	21	1.7	35	3.5511	--
180	HCC-1C	1123	1123 S	subtidal	1	20	U	20	U	20	1.7	34	3.5264	--
181	HCC-1B	1207	1207I	intertidal	2	17	U	17	U	17	1.7	29	3.3638	--
182	HCC-1B	1206	1206I	intertidal	4	15	U	15	U	15	1.7	26	3.2387	--
183	HCC-1B	1209	1209I	intertidal	3	15	U	15	U	15	1.7	26	3.2387	--
184	HCC-1B	1204	1204I	intertidal	4	13	U	13	U	13	1.7	22	3.0956	--
185	HCC-1B	1214	1214I	intertidal	3	13	U	13	U	13	1.7	22	3.0956	--
186	HCC-1B	3220	3220I	intertidal	3	13	U	13	U	13	1.7	22	3.0956	--
187	HCC-1B	5213	5213I	intertidal	4	13	U	13	U	13	1.7	22	3.0956	--
188	HCC-1B	4207	4207I	intertidal	3	12	U	12	U	12	1.7	20	3.0155	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Acenaphthene			Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
						Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
1	HCC-1A	4101	4101S	subtidal	1	210		210	340		340	2400		2400	7800		7800	3000		3000	5800		5800
2	HCC-1B	2211	2211I	intertidal	2	1000		1000	590		590	8000	J	8000	8000	J	8000	2700		2700	6700	J	6700
3	HCC-1C	2114	2114S	subtidal	1	460		460	29		29	1800		1800	6300		6300	6300		6300	4400		4400
4	HCC-1C	5215	5215 I	intertidal	2	1200		1200	78		78	5200		5200	3000		3000	1800		1800	2000		2000
5	HCC-1B	1201		intertidal	2	220	M(4)	220	105	UM(4)	53	608	M(4)	607.5	2925	M(4)	2925	2325	M(4)	2325	8175	M(4)	8175
6	HCC-1C	1117	1117S	subtidal	1	82		82	20	U	10	410		410	610		610	2000		2000	4300		4300
7	HCC-1A	1104	1104S	subtidal	1	420		420	97	U	48.5	890		890	2200		2200	2600		2600	1900		1900
8	HCC-1B	5210	5210SM	intertidal	2	41	J	41	26	U	13	760		760	2700		2700	1700		1700	1600		1600
9	HCC-1B	5203	5203I	intertidal	2	860		860	72	J	72	2200		2200	1900		1900	1200		1200	1900		1900
10	HCC-1B	1203	1203I	intertidal	7	560		560	57		57	1600	J	1600	3700	J	3700	1300		1300	2600	J	2600
11	HCC-1B	2202	2202I	intertidal	2	29	U	14.5	430		430	320		320	1600		1600	2600		2600	3000	J	3000
12	HCC-1B	5202	5202I	intertidal	6	1200		1200	61		61	1500	J	1500	1900	J	1900	1100		1100	2000	J	2000
13	HCC-1C	1120	1120S	subtidal	1	62		62	51		51	550		550	1500		1500	1800		1800	2600		2600
14	HCC-1C	4116	4116S	subtidal	1	87		87	54		54	360		360	1400		1400	670		670	1000		1000
15	HCC-1B	3215	3215I	intertidal	2	34	J	34	68		68	230		230	1500	J	1500	1400		1400	2800	J	2800
16	HCC-1B	5206	5206I	intertidal	2	460		460	38	J	38	1400	J	1400	1400		1400	840		840	1800	J	1800
17	Co-Trustee	HY-24	00191	subtidal	1	17		17	61		61	990		990	1900		1900	1800		1800	6600		6600
18	HCC-1B	5205	5205I	intertidal	2	370		370	29	J	29	1200	J	1200	1500	J	1500	980		980	1700	J	1700
19	HCC-1C	1118	1118S	subtidal	1	220		220	19	U	9.5	380		380	1300		1300	1000		1000	1500		1500
20	HCC-1B	2206	2206I	intertidal	6	35	U	17.5	32	U	16	490		490	1400		1400	750		750	2200	J	2200
21	HCC-1B	4205	4205I	intertidal	3	93		93	120		120	330		330	1000		1000	920		920	1200		1200
22	HCC-1A	4104	4104S	subtidal	1	140		140	53		53	330		330	770		770	610		610	990		990
23	HCC-1B	5211	5211I	intertidal	2	72	J	72	52	U	26	550		550	910		910	610		610	1100		1100
24	HCC-1B	3214	3214I	intertidal	2	290		290	96	U	48	200		200	580		580	640		640	960		960
25	HCC-1B	3211	3211I	intertidal	4	37		37	29		29	140		140	760		760	230		230	490		490
26	Co-Trustee	HY-03	00426	subtidal	1	37	M(3)	37.33	190	M(3)	190	1677	M(3)	1677	1497	M(3)	1497	1167	M(3)	1167	2467	M(3)	2466.7
27	HCC-1C	2113	2113S	subtidal	1	270		270	19	J	19	210		210	680		680	600		600	920		920
28	HCC-1B	5208	5208I	intertidal	2	120		120	46	U	23	420		420	520		520	570		570	610		610
29	HCC-1B	5209	5209I	intertidal	5	49		49	27	U	13.5	310		310	780		780	540		540	930		930
30	HCC-1B	5207	5207I	intertidal	2	160		160	43	J	43	400		400	670		670	520		520	940		940
31	HCC-1A	1101		subtidal	1	37	UM(4)	18.63	36	UM(4)	17.75	308	M(4)	308	748	M(4)	748	508	M(4)	508	1400	M(4)	1400
32	HCC-1B	1216	1216I	intertidal	3	51	J	51	14	U	7	150	J	150	640		640	670		670	1100		1100
33	HCC-1C	3107	3107S	subtidal	1	58		58	39		39	400		400	620		620	630		630	1100		1100
34	HCC-1A	4106	4106S	subtidal	1	110		110	45		45	310		310	600		600	420		420	590		590
35	Co-Trustee	HY-19		subtidal	1	24	M(3)	24	80	M(3)	80	347	M(3)	346.7	857	M(3)	856.7	1087	M(3)	1087	3633	M(3)	3633.3
36	Co-Trustee	HY-25	00204	subtidal	1	22		22	40		40	270		270	740		740	1300		1300	4800		4800
37	HCC-1B	3213	3213I	intertidal	2	130	U	65	130	U	65	91	J	91	360		360	180		180	390		390
38	HCC-1A	1102	1102S	subtidal	1	54		54	24		24	210		210	620		620	600		600	1300		1300
39	HCC-1B	2209	2209I	intertidal	2	170		170	28	U	14	330		330	600		600	450		450	740		740
40	HCC-1C	2115	2115S	subtidal	1	32		32	19	J	19	220		220	430		430	740		740	1400		1400
41	HCC-1C	4117	4117S	subtidal	1	82		82	34		34	220		220	520		520	560		560	710		710
42	HCC-1A	2101	2101S	subtidal	1	28		28	18	U	9	520		520	670		670	340		340	720		720

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Benzo(ghi)perylene Report Value ppb	Qual. Code	Adj. Value ppb	Benzo(k)fluoranthene Report Value ppb	Qual. Code	Adj. Value ppb	Chrysene Report Value ppb	Qual. Code	Adj. Value ppb	Dibenzo(a,h)-anthracene Report Value ppb	Qual. Code	Adj. Value ppb	Fluoranthene Report Value ppb	Qual. Code	Adj. Value ppb	Fluoren Report Value ppb	Qual. Code
1	HCC-1A	4101	4101S	subtidal	1	750		750	4200		4200	9400		9400	570		570	20000		20000	130	
2	HCC-1B	2211	2211I	intertidal	2	1200		1200	2000		2000	7600	J	7600	620		620	18000	J	18000	1100	
3	HCC-1C	2114	2114S	subtidal	1	3100		3100	5000		5000	8000		8000	1200		1200	8800		8800	600	
4	HCC-1C	5215	5215 I	intertidal	2	730		730	2700		2700	4200		4200	320		320	14000		14000	2300	
5	HCC-1B	1201		intertidal	2	790	M(3)	790	4600	M(4)	4600	8700	MJ(4)	8700	735	M(4)	735	5850	JM(4)	5850	216.67	M(3)
6	HCC-1C	1117	1117S	subtidal	1	880		880	2500		2500	6800		6800	390		390	9100		9100	82	
7	HCC-1A	1104	1104S	subtidal	1	560		560	1900		1900	3900		3900	540		540	3100		3100	340	
8	HCC-1B	5210	5210SM	intertidal	2	960		960	2300		2300	3200		3200	730		730	5300	J	5300	26	U
9	HCC-1B	5203	5203I	intertidal	2	260		260	1500		1500	2500		2500	210		210	2900	J	2900	840	
10	HCC-1B	1203	1203I	intertidal	7	55	J	55	2700	J	2700	3500	J	3500	260		260	2400	J	2400	1200	
11	HCC-1B	2202	2202I	intertidal	2	3000	J	3000	1100		1100	2400		2400	440		440	3300	J	3300	40	J
12	HCC-1B	5202	5202I	intertidal	6	110		110	1400		1400	2200	J	2200	200		200	2000	J	2000	740	
13	HCC-1C	1120	1120S	subtidal	1	290		290	2000		2000	3100		3100	220		220	2300		2300	140	
14	HCC-1C	4116	4116S	subtidal	1	260		260	650		650	1700		1700	120		120	4300		4300	130	
15	HCC-1B	3215	3215I	intertidal	2	230		230	2000		2000	2300		2300	110	J	110	2300		2300	83	
16	HCC-1B	5206	5206I	intertidal	2	99		99	960		960	1900	J	1900	230		230	1900	J	1900	580	
17	Co-Trustee	HY-24	00191	subtidal	1	1300		1300		***	0	3700		3700	340		340	6100		6100	170	
18	HCC-1B	5205	5205I	intertidal	2	120		120	1100		1100	1600	J	1600	270		270	1800	J	1800	430	
19	HCC-1C	1118	1118S	subtidal	1	250		250	1200		1200	2500		2500	120		120	2400		2400	200	
20	HCC-1B	2206	2206I	intertidal	6	220		220	1800		1800	2000	J	2000	260		260	1800	J	1800	110	
21	HCC-1B	4205	4205I	intertidal	3	350		350	880		880	1800		1800	170		170	2400		2400	160	
22	HCC-1A	4104	4104S	subtidal	1	350		350	670		670	1500		1500	110	N	110	3600		3600	130	
23	HCC-1B	5211	5211I	intertidal	2	150		150	920		920	1800		1800	100		100	3500	J	3500	160	
24	HCC-1B	3214	3214I	intertidal	2	270		270	750		750	1200		1200	96	U	48	2300		2300	270	
25	HCC-1B	3211	3211I	intertidal	4	51		51	540		540	1300		1300	24	J	24	5300	J	5300	56	
26	Co-Trustee	HY-03	00426	subtidal	1	603	M(3)	603.3		***	0	1767	M(3)	1767	147	M(3)	146.667	5067	M(3)	5067	723	M(3)
27	HCC-1C	2113	2113S	subtidal	1	280		280	820		820	1300		1300	120		120	2000		2000	110	
28	HCC-1B	5208	5208I	intertidal	2	290		290	820		820	840		840	140		140	1600		1600	150	
29	HCC-1B	5209	5209I	intertidal	5	230		230	990		990	1200		1200	200		200	1300		1300	96	
30	HCC-1B	5207	5207I	intertidal	2	94		94	870		870	1100		1100	150		150	1500		1500	160	
31	HCC-1A	1101		subtidal	1	138	M(4)	138	828	M(4)	827.5	1800	M(4)	1800	115	MN(4)	115	1850	M(4)	1850	49	JM(3)
32	HCC-1B	1216	1216I	intertidal	3	210		210	850		850	1100		1100	120	J	120	2700		2700	57	
33	HCC-1C	3107	3107S	subtidal	1	350		350	800		800	1100		1100	130		130	2000		2000	110	
34	HCC-1A	4106	4106S	subtidal	1	110		110	590		590	1100		1100	120		120	2000		2000	88	
35	Co-Trustee	HY-19		subtidal	1	973	M(3)	973.3		***	0	2300	M(3)	2300	200	M(3)	200	2800	M(3)	2800	102	M(3)
36	Co-Trustee	HY-25	00204	subtidal	1	1000		1000		***	0	2100		2100	280		280	2000		2000	68	
37	HCC-1B	3213	3213I	intertidal	2	80	U	40	410		410	830		830	130	U	65	2800		2800	130	U
38	HCC-1A	1102	1102S	subtidal	1	200		200	740		740	1300		1300	150		150	1300		1300	73	
39	HCC-1B	2209	2209I	intertidal	2	80		80	670		670	900		900	86		86	1400		1400	140	
40	HCC-1C	2115	2115S	subtidal	1	390		390	930		930	1100		1100	160		160	640		640	54	
41	HCC-1C	4117	4117S	subtidal	1	390		390	580		580	890		890	160		160	1100		1100	95	
42	HCC-1A	2101	2101S	subtidal	1	86		86	420		420	1000		1000	60		60	2200		2200	70	

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						le	Indeno(1,2,3-cd)pyrene			Naphthalene			Phenanthrene			Pyrene			2-Methyl-naphthalene		
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
1	HCC-1A	4101	4101S	subtidal	1	130	1300		1300	240		240	1100		1100	53000		53000	56		56
2	HCC-1B	2211	2211I	intertidal	2	1100	1200		1200	300		300	4100	J	4100	12000	J	12000	220		220
3	HCC-1C	2114	2114S	subtidal	1	600	2900		2900	1700		1700	5600		5600	11000	J	11000	710		710
4	HCC-1C	5215	5215 I	intertidal	2	2300	820		820	250		250	9000		9000	6700	J	6700	360		360
5	HCC-1B	1201		intertidal	2	216.7	1725	M(4)	1725	100	J	100	1750	M(4)	1750	8050	JM(4)	8050	105	UM(4)	53
6	HCC-1C	1117	1117S	subtidal	1	82	1100		1100	30		30	780		780	7700		7700	24		24
7	HCC-1A	1104	1104S	subtidal	1	340	1100		1100	130		130	4300		4300	5400		5400	180		180
8	HCC-1B	5210	5210SM	intertidal	2	13	1100		1100	38	J	38	2000		2000	6700	J	6700	26	U	13
9	HCC-1B	5203	5203I	intertidal	2	840	590		590	160		160	2800	J	2800	5800	J	5800	140		140
10	HCC-1B	1203	1203I	intertidal	7	1200	530		530	78		78	1000		1000	4100	J	4100	39		39
11	HCC-1B	2202	2202I	intertidal	2	40	1800		1800	460		460	560		560	3900	J	3900	130		130
12	HCC-1B	5202	5202I	intertidal	6	740	560		560	220		220	2200	J	2200	2700	J	2700	79		79
13	HCC-1C	1120	1120S	subtidal	1	140	560		560	33		33	510		510	3200		3200	24		24
14	HCC-1C	4116	4116S	subtidal	1	130	290		290	110		110	350		350	5000		5000	68		68
15	HCC-1B	3215	3215I	intertidal	2	83	320		320	28	J	28	350		350	2000	J	2000	32	U	16
16	HCC-1B	5206	5206I	intertidal	2	580	470		470	67		67	1300	J	1300	2200	J	2200	74		74
17	Co-Trustee	HY-24	00191	subtidal	1	170	1100		1100	86		86	780		780	5700		5700	59		59
18	HCC-1B	5205	5205I	intertidal	2	430	560		560	28	J	28	1600	J	1600	2000	J	2000	48		48
19	HCC-1C	1118	1118S	subtidal	1	200	350		350	21		21	630		630	2400		2400	19	U	9.5
20	HCC-1B	2206	2206I	intertidal	6	110	790		790	44	J	44	530		530	1700		1700	32	U	16
21	HCC-1B	4205	4205I	intertidal	3	160	360		360	71		71	1700		1700	2400		2400	76	J	76
22	HCC-1A	4104	4104S	subtidal	1	130	420		420	28	J	28	1100		1100	2900		2900	26	J	26
23	HCC-1B	5211	5211I	intertidal	2	160	380	J	380	52	U	26	930		930	2300		2300	52	U	26
24	HCC-1B	3214	3214I	intertidal	2	270	200		200	120	J	120	2000		2000	2700		2700	75	J	75
25	HCC-1B	3211	3211I	intertidal	4	56	58		58	14	U	7	450		450	2700	J	2700	9	J	9
26	Co-Trustee	HY-03	00426	subtidal	1	723.3	657	M(3)	656.667	217	M(3)	216.67	3200	M(3)	3200	3467	M(3)	3466.7	190	M(3)	190
27	HCC-1C	2113	2113S	subtidal	1	110	280		280	71		71	610		610	2300		2300	11	J	11
28	HCC-1B	5208	5208I	intertidal	2	150	460		460	460		460	1500		1500	1600		1600	150		150
29	HCC-1B	5209	5209I	intertidal	5	96	470		470	33	J	33	990		990	2100		2100	36	J	36
30	HCC-1B	5207	5207I	intertidal	2	160	390		390	360		360	1200		1200	1600	J	1600	110		110
31	HCC-1A	1101		subtidal	1	48.67	293	M(4)	292.5	36	UM	18	353	M(4)	352.5	1550	M(4)	1550	36	UM(4)	18
32	HCC-1B	1216	1216I	intertidal	3	57	250		250	28		28	440		440	1600		1600	14	J	14
33	HCC-1C	3107	3107S	subtidal	1	110	370		370	48		48	500		500	1600		1600	36		36
34	HCC-1A	4106	4106S	subtidal	1	88	250		250	54		54	1400		1400	1400		1400	38		38
35	Co-Trustee	HY-19		subtidal	1	102.3	803	M(3)	803.333	210	M(3)	210	710	M(3)	710	3867	M(3)	3866.7	75	M(3)	75.333
36	Co-Trustee	HY-25	00204	subtidal	1	68	930		930	85		85	470		470	3400		3400	53		53
37	HCC-1B	3213	3213I	intertidal	2	65	94	U	47	130	U	65	510		510	2500		2500	130	U	65
38	HCC-1A	1102	1102S	subtidal	1	73	350		350	29	J	29	470		470	1100		1100	21	J	21
39	HCC-1B	2209	2209I	intertidal	2	140	320		320	32	J	32	1200		1200	1300		1300	28	U	14
40	HCC-1C	2115	2115S	subtidal	1	54	370		370	29		29	290		290	1600		1600	22		22
41	HCC-1C	4117	4117S	subtidal	1	95	380		380	64		64	680		680	1700		1700	41		41
42	HCC-1A	2101	2101S	subtidal	1	70	180		180	22	J	22	350		350	1400		1400	18	U	9

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						PAHs Combined				
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Combined Values ppb	Adj. Factor	Revised Conc. ppb	Ln. conc.	Injury Level
1	HCC-1A	4101	4101S	subtidal	1	110,296	2.0	220,592	12.30407	80%
2	HCC-1B	2211	2211I	intertidal	2	75,330	2.0	150,660	11.9228	80%
3	HCC-1C	2114	2114S	subtidal	1	67,899	2.0	135,798	11.8189	80%
4	HCC-1C	5215	5215 I	intertidal	2	54,658	2.0	109,316	11.6020	80%
5	HCC-1B	1201		intertidal	2	46,874	2.0	93,749	11.4484	80%
6	HCC-1C	1117	1117S	subtidal	1	36,798	2.0	73,596	11.2063	80%
7	HCC-1A	1104	1104S	subtidal	1	29,509	2.0	59,017	10.9856	60%
8	HCC-1B	5210	5210SM	intertidal	2	29,168	2.0	58,336	10.9740	60%
9	HCC-1B	5203	5203I	intertidal	2	25,832	2.0	51,664	10.8525	60%
10	HCC-1B	1203	1203I	intertidal	7	25,679	2.0	51,358	10.8466	60%
11	HCC-1B	2202	2202I	intertidal	2	25,095	2.0	50,189	10.8236	60%
12	HCC-1B	5202	5202I	intertidal	6	20,170	2.0	40,340	10.6051	60%
13	HCC-1C	1120	1120S	subtidal	1	18,940	2.0	37,880	10.5422	60%
14	HCC-1C	4116	4116S	subtidal	1	16,549	2.0	33,098	10.4072	60%
15	HCC-1B	3215	3215I	intertidal	2	15,769	2.0	31,538	10.3589	60%
16	HCC-1B	5206	5206I	intertidal	2	15,718	2.0	31,436	10.3557	60%
17	Co-Trustee	HY-24	00191	subtidal	1	30,703	1.0	30,703	10.3321	60%
18	HCC-1B	5205	5205I	intertidal	2	15,335	2.0	30,670	10.3310	60%
19	HCC-1C	1118	1118S	subtidal	1	14,490	2.0	28,980	10.2744	60%
20	HCC-1B	2206	2206I	intertidal	6	14,144	2.0	28,287	10.2502	60%
21	HCC-1B	4205	4205I	intertidal	3	14,030	2.0	28,060	10.2421	60%
22	HCC-1A	4104	4104S	subtidal	1	13,727	2.0	27,454	10.2203	60%
23	HCC-1B	5211	5211I	intertidal	2	13,560	2.0	27,120	10.2080	60%
24	HCC-1B	3214	3214I	intertidal	2	12,651	2.0	25,302	10.1386	60%
25	HCC-1B	3211	3211I	intertidal	4	12,181	2.0	24,362	10.1008	60%
26	Co-Trustee	HY-03	00426	subtidal	1	23,071	1.0	23,071	10.0463	60%
27	HCC-1C	2113	2113S	subtidal	1	10,601	2.0	21,202	9.9619	60%
28	HCC-1B	5208	5208I	intertidal	2	10,273	2.0	20,546	9.9304	60%
29	HCC-1B	5209	5209I	intertidal	5	10,268	2.0	20,535	9.9299	60%
30	HCC-1B	5207	5207I	intertidal	2	10,267	2.0	20,534	9.9298	60%
31	HCC-1A	1101		subtidal	1	10,009	2.0	20,017	9.9043	60%
32	HCC-1B	1216	1216I	intertidal	3	9,987	2.0	19,974	9.9022	60%
33	HCC-1C	3107	3107S	subtidal	1	9,891	2.0	19,782	9.8925	60%
34	HCC-1A	4106	4106S	subtidal	1	9,225	2.0	18,450	9.8228	60%
35	Co-Trustee	HY-19		subtidal	1	18,068	1.0	18,068	9.8019	60%
36	Co-Trustee	HY-25	00204	subtidal	1	17,558	1.0	17,558	9.7733	60%
37	HCC-1B	3213	3213I	intertidal	2	8,548	2.0	17,096	9.7466	60%
38	HCC-1A	1102	1102S	subtidal	1	8,541	2.0	17,082	9.7458	60%
39	HCC-1B	2209	2209I	intertidal	2	8,446	2.0	16,892	9.7346	40%
40	HCC-1C	2115	2115S	subtidal	1	8,426	2.0	16,852	9.7322	40%
41	HCC-1C	4117	4117S	subtidal	1	8,206	2.0	16,412	9.7058	40%
42	HCC-1A	2101	2101S	subtidal	1	8,084	2.0	16,168	9.6908	40%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Acenaphthene			Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
						Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
43	HCC-1B	1212	1212I	intertidal	2	120	J	120	14	U	7	240	J	240	460	J	460	290	J	290	680	J	680
44	Co-Trustee	HY-22	00156	subtidal	1	13		13	42		42	430		430	640		640	700		700	2400		2400
45	HCC-1B	1202	1202I	intertidal	4	81		81	54	U	27	110		110	390		390	340		340	1200		1200
46	Co-Trustee	HY-21	00136	subtidal	1	25		25	57		57	300		300	670		670	1000		1000	3400		3400
47	Co-Trustee	HY-23	00173	subtidal	1	16		16	42		42	250		250	770		770	1100		1100	3900		3900
48	Co-Trustee	HY-20	00127	subtidal	1	20		20	44		44	270		270	730		730	910		910	3300		3300
49	HCC-1A	3104	3104S	subtidal	1	100		100	22	J	22	140		140	370		370	370		370	500		500
50	HCC-1B	2212	2212I	intertidal	3	53		53	29	J	29	140		140	390		390	430		430	800		800
51	HCC-1A	1105	1105S	subtidal	1	40	U	20	40	U	20	140		140	410		410	480		480	1100		1100
52	HCC-1C	2112	2112S	subtidal	1	19	U	9.5	32		32	76		76	290		290	730		730	1400		1400
53	HCC-1B	5212	5212I	intertidal	6	43	J	43	26	U	13	180		180	430		430	420		420	770		770
54	Co-Trustee	HY-26	00217	subtidal	1	22		22	28		28	170		170	470		470	1000		1000	3900		3900
55	HCC-1C	3109	3109S	subtidal	1	33		33	19	U	9.5	160		160	400		400	560		560	1100		1100
56	HCC-1B	1210	1210I	intertidal	2	27		27	14	U	7	170		170	480		480	220		220	520		520
57	HCC-1C	1122	1122S	subtidal	1	20		20	20	U	10	110		110	280		280	450		450	920		920
58	HCC-1A	2111	2111S	subtidal	1	20	U	10	20	U	10	100		100	370		370	300		300	660		660
59	HCC-1A	2102	2102S	subtidal	1	30		30	18	U	9	110		110	370		370	340		340	860		860
60	HCC-1A	2110	2110S	subtidal	1	18	U	9	18	U	9	65		65	200		200	530		530	1400		1400
61	Co-Trustee	HY-28	00256	subtidal	1	19	M(3)	19	31	M(3)	31.33	233	M(3)	233.3	600	M(3)	600	823	M(3)	823.3	2867	M(3)	2866.7
62	HCC-1B	2205	2205I	intertidal	3	36	J	36	30	U	15	130		130	450		450	410		410	550		550
63	HCC-1C	1125	1125S	subtidal	1	20	U	10	20	U	10	99		99	340		340	760		760	870		870
64	Co-Trustee	HY-18	00082	subtidal	1	21		21	41		41	240		240	510		510	720		720	2300		2300
65	HCC-1C	1121	1121S	subtidal	1	37		37	20	U	10	160		160	430		430	400		400	750		750
66	HCC-1A	4107	4107S	subtidal	1	41		41	20	J	20	190		190	340		340	300		300	520		520
67	HCC-1A	2107	2107S	subtidal	1	26	J	26	18	U	9	120		120	350		350	420		420	590		590
68	Co-Trustee	HY-10	00326	subtidal	1	26		26	87		87	330		330	710		710	620		620	1700		1700
69	HCC-1A	4103	4103S	subtidal	1	44		44	23	J	23	88		88	220		220	220		220	400		400
70	HCC-1A	5106	5106S	subtidal	1	47		47	22	J	22	270		270	360		360	300		300	430		430
71	HCC-1A	1108	1108S	subtidal	1	100	U	50	100	U	50	130		130	380		380	290		290	610		610
72	HCC-1A	2109	2109S	subtidal	1	60	U	30	60	U	30	280		280	320		320	260		260	650		650
73	HCC-1B	2208	2208I	intertidal	2	28	U	14	28	U	14	110		110	350		350	280		280	530		530
74	HCC-1B	4209	4209I	intertidal	2	30	J	30	39	J	39	130		130	330		330	200		200	640		640
75	HCC-1C	1133	1133S	subtidal	1	15	J	15	16	J	16	120		120	310		310	370		370	690		690
76	HCC-1A	1106	1106S	subtidal	1	18	U	9	18	U	9	130		130	390		390	330		330	770		770
77	HCC-1A	5101	5101S	subtidal	1	44		44	23	J	23	190		190	390		390	320		320	510		510
78	Co-Trustee	HY-06		subtidal	1	26	M(3)	26	175	M(3)	174.7	417	M(3)	416.7	590	M(3)	590	480	M(3)	480	1093	M(3)	1093.3
79	HCC-1B	1213	1213I	intertidal	4	38		38	15	U	7.5	300		300	280		280	170		170	330		330
80	Co-Trustee	HY-27	00235	subtidal	1	14		14	23		23	130		130	330		330	690		690	2500		2500
81	HCC-1A	3105	3105S	subtidal	1	22	J	22	18	U	9	88		88	260		260	300		300	720		720
82	HCC-1C	3110	3110S	subtidal	1	29		29	15	J	15	150		150	270		270	360		360	580		580
83	Co-Trustee	HY-15	00031	subtidal	1	32		32	56		56	290		290	520		520	550		550	1800		1800
84	Co-Trustee	HY-08	00313	subtidal	1	47		47	86		86	310		310	530		530	520		520	1600		1600

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Benzo(ghi)perylene Report Value ppb	Qual. Code	Adj. Value ppb	Benzo(k)fluoranthene Report Value ppb	Qual. Code	Adj. Value ppb	Chrysene Report Value ppb	Qual. Code	Adj. Value ppb	Dibenzo(a,h)-anthracene Report Value ppb	Qual. Code	Adj. Value ppb	Fluoranthene Report Value ppb	Qual. Code	Adj. Value ppb	Fluoren Report Value ppb	Qual. Code
43	HCC-1B	1212	1212I	intertidal	2	180	J	180	440	J	440	920	J	920	80	J	80	2200	J	2200	49	J
44	Co-Trustee	HY-22	00156	subtidal	1	590		590		***	0	1500		1500	150		150	2900		2900	69	
45	HCC-1B	1202	1202I	intertidal	4	60	J	60	650		650	1100		1100	120		120	750		750	56	J
46	Co-Trustee	HY-21	00136	subtidal	1	880		880		***	0	1800		1800	210		210	1700		1700	83	
47	Co-Trustee	HY-23	00173	subtidal	1	870		870		***	0	1900		1900	210		210	1600		1600	66	
48	Co-Trustee	HY-20	00127	subtidal	1	870		870		***	0	1800		1800	190		190	1800		1800	71	
49	HCC-1A	3104	3104S	subtidal	1	180		180	370		370	680		680	64		64	880		880	140	
50	HCC-1B	2212	2212I	intertidal	3	410		410	490		490	770		770	180		180	1200		1200	49	J
51	HCC-1A	1105	1105S	subtidal	1	140		140	740		740	880		880	100		100	640		640	40	U
52	HCC-1C	2112	2112S	subtidal	1	290		290	630		630	700		700	97		97	520		520	19	U
53	HCC-1B	5212	5212I	intertidal	6	100	J	100	630		630	730		730	110	J	110	1100		1100	43	J
54	Co-Trustee	HY-26	00217	subtidal	1	870		870		***	0	1500		1500	240		240	1100		1100	60	
55	HCC-1C	3109	3109S	subtidal	1	160		160	460		460	580		580	82		82	1000		1000	40	
56	HCC-1B	1210	1210I	intertidal	2	95	J	95	320		320	720		720	47	J	47	2000		2000	55	
57	HCC-1C	1122	1122S	subtidal	1	83		83	380		380	640		640	62		62	1000		1000	29	
58	HCC-1A	2111	2111S	subtidal	1	85		85	540		540	1000		1000	55		55	1100		1100	20	U
59	HCC-1A	2102	2102S	subtidal	1	89		89	570		570	910		910	77	N	77	620		620	32	J
60	HCC-1A	2110	2110S	subtidal	1	130		130	610		610	910		910	81	N	81	230		230	18	U
61	Co-Trustee	HY-28	00256	subtidal	1	620	M(3)	620		***	0	1467	M(3)	1467	170	M(3)	170	1833	M(3)	1833	64	M(3)
62	HCC-1B	2205	2205I	intertidal	3	94		94	660		660	690		690	96		96	760		760	35	J
63	HCC-1C	1125	1125S	subtidal	1	250		250	690		690	760		760	71		71	660		660	20	U
64	Co-Trustee	HY-18	00082	subtidal	1	620		620		***	0	1300		1300	140		140	1400		1400	73	
65	HCC-1C	1121	1121S	subtidal	1	130		130	410		410	830	J	830	64		64	680		680	58	
66	HCC-1A	4107	4107S	subtidal	1	77		77	450		450	650		650	59	N	59	880		880	90	
67	HCC-1A	2107	2107S	subtidal	1	110		110	840		840	900		900	110	N	110	540		540	26	J
68	Co-Trustee	HY-10	00326	subtidal	1	360		360		***	0	1100		1100	92		92	1900		1900	140	
69	HCC-1A	4103	4103S	subtidal	1	120	J	120	240		240	500		500	32	N	32	1200		1200	67	
70	HCC-1A	5106	5106S	subtidal	1	120		120	290		290	660		660	60	N	60	960		960	71	
71	HCC-1A	1108	1108S	subtidal	1	100	U	50	460		460	790		790	92	J	92	530		530	100	U
72	HCC-1A	2109	2109S	subtidal	1	100		100	240		240	720		720	73		73	900		900	64	
73	HCC-1B	2208	2208I	intertidal	2	53		53	450		450	630		630	54		54	970		970	40	J
74	HCC-1B	4209	4209I	intertidal	2	120		120	180		180	570		570	39	J	39	1000	J	1000	66	
75	HCC-1C	1133	1133S	subtidal	1	220		220	590		590	750		750	97	J	97	450		450	27	
76	HCC-1A	1106	1106S	subtidal	1	88		88	520		520	770		770	69	N	69	520		520	28	J
77	HCC-1A	5101	5101S	subtidal	1	77		77	390		390	580		580	75		75	830		830	74	
78	Co-Trustee	HY-06		subtidal	1	290	M(3)	290		***	0	813	M(3)	813.3	76	M(3)	75.6667	1590	M(3)	1590	233	M(3)
79	HCC-1B	1213	1213I	intertidal	4	80	J	80	300		300	440		440	40	J	40	1200		1200	71	
80	Co-Trustee	HY-27	00235	subtidal	1	550		550		***	0	980		980	150		150	1100		1100	39	
81	HCC-1A	3105	3105S	subtidal	1	69		69	570		570	710		710	66		66	500		500	29	J
82	HCC-1C	3110	3110S	subtidal	1	220		220	410		410	610		610	74		74	420		420	39	
83	Co-Trustee	HY-15	00031	subtidal	1	450		450		***	0	1100		1100	110		110	1200		1200	97	
84	Co-Trustee	HY-08	00313	subtidal	1	410		410		***	0	1100		1100	80		80	1100		1100	140	

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	le Adj. Value ppb	Indeno(1,2,3-cd)pyrene Report Value ppb	Qual. Code	Adj. Value ppb	Naphthalene Report Value ppb	Qual. Code	Adj. Value ppb	Phenanthrene Report Value ppb	Qual. Code	Adj. Value ppb	Pyrene Report Value ppb	Qual. Code	Adj. Value ppb	2-Methyl-naphthalene Report Value ppb	Qual. Code	Adj. Value ppb
43	HCC-1B	1212	1212I	intertidal	2	49	180	J	180	18	J	18	430	J	430	1300	J	1300	14	U	7
44	Co-Trustee	HY-22	00156	subtidal	1	69	540		540	91		91	2000		2000	2700		2700	47		47
45	HCC-1B	1202	1202I	intertidal	4	56	290		290	54	U	27	290		290	1800		1800	54	U	27
46	Co-Trustee	HY-21	00136	subtidal	1	83	780		780	130		130	560		560	2800		2800	72		72
47	Co-Trustee	HY-23	00173	subtidal	1	66	750		750	100		100	490		490	2300		2300	51		51
48	Co-Trustee	HY-20	00127	subtidal	1	71	720		720	140		140	530		530	2400		2400	68		68
49	HCC-1A	3104	3104S	subtidal	1	140	220		220	140		140	1400		1400	1000		1000	150	J	150
50	HCC-1B	2212	2212I	intertidal	3	49	370		370	36	J	36	400		400	930		930	32	J	32
51	HCC-1A	1105	1105S	subtidal	1	20	260		260	40	U	20	190		190	1500		1500	40	U	20
52	HCC-1C	2112	2112S	subtidal	1	9.5	320		320	52		52	160		160	1300		1300	25		25
53	HCC-1B	5212	5212I	intertidal	6	43	320	J	320	33	J	33	570		570	1100		1100	26	U	13
54	Co-Trustee	HY-26	00217	subtidal	1	60	800		800	78		78	370		370	2500		2500	42		42
55	HCC-1C	3109	3109S	subtidal	1	40	220		220	29		29	540		540	1100		1100	19	U	9.5
56	HCC-1B	1210	1210I	intertidal	2	55	100		100	14	U	7	380		380	1200		1200	14	U	7
57	HCC-1C	1122	1122S	subtidal	1	29	140		140	20	U	10	250		250	1600		1600	20	U	10
58	HCC-1A	2111	2111S	subtidal	1	10	180		180	20	U	10	94		94	1400		1400	20	U	10
59	HCC-1A	2102	2102S	subtidal	1	32	220		220	31		31	220		220	1400		1400	18	U	9
60	HCC-1A	2110	2110S	subtidal	1	9	210		210	18	U	9	120		120	1300		1300	18	U	9
61	Co-Trustee	HY-28	00256	subtidal	1	64.33	580	M(3)	580	67	M(3)	66.667	363	M(3)	363.33	1867	M(3)	1867	48	M(3)	48
62	HCC-1B	2205	2205I	intertidal	3	35	260		260	52		52	440		440	980		980	30	U	15
63	HCC-1C	1125	1125S	subtidal	1	10	170		170	20	U	10	150		150	760		760	20	U	10
64	Co-Trustee	HY-18	00082	subtidal	1	73	530		530	130		130	480		480	2100		2100	73		73
65	HCC-1C	1121	1121S	subtidal	1	58	140		140	23		23	490		490	700		700	20	U	10
66	HCC-1A	4107	4107S	subtidal	1	90	170		170	31		31	570		570	850		850	21	J	21
67	HCC-1A	2107	2107S	subtidal	1	26	230		230	24	J	24	220		220	650		650	18	U	9
68	Co-Trustee	HY-10	00326	subtidal	1	140	370		370	240		240	790		790	1600		1600	110		110
69	HCC-1A	4103	4103S	subtidal	1	67	160	N	160	23	J	23	860		860	860		860	15	J	15
70	HCC-1A	5106	5106S	subtidal	1	71	160		160	72		72	310		310	870		870	25	J	25
71	HCC-1A	1108	1108S	subtidal	1	50	200		200	100	U	50	190		190	990		990	100	U	50
72	HCC-1A	2109	2109S	subtidal	1	64	170		170	60	U	30	350		350	680		680	60	U	30
73	HCC-1B	2208	2208I	intertidal	2	40	200		200	28	U	14	380		380	800		800	28	U	14
74	HCC-1B	4209	4209I	intertidal	2	66	150		150	75		75	410		410	820		820	24	J	24
75	HCC-1C	1133	1133S	subtidal	1	27	200		200	20	U	10	180		180	740		740	10	J	10
76	HCC-1A	1106	1106S	subtidal	1	28	180		180	18	U	9	170		170	730		730	18	U	9
77	HCC-1A	5101	5101S	subtidal	1	74	180		180	33		33	350		350	620		620	27	J	27
78	Co-Trustee	HY-06		subtidal	1	233.3	297	M(3)	296.667	407	M(3)	406.67	883	M(3)	883.33	1800	M(3)	1800	162	M(3)	161.67
79	HCC-1B	1213	1213I	intertidal	4	71	83	J	83	15	U	7.5	560		560	720		720	15	U	7.5
80	Co-Trustee	HY-27	00235	subtidal	1	39	490		490	55		55	270		270	1800		1800	33		33
81	HCC-1A	3105	3105S	subtidal	1	29	190		190	28	J	28	210		210	770		770	18	U	9
82	HCC-1C	3110	3110S	subtidal	1	39	200		200	26		26	250		250	840		840	17	J	17
83	Co-Trustee	HY-15	00031	subtidal	1	97	410		410	200		200	540		540	1500		1500	88		88
84	Co-Trustee	HY-08	00313	subtidal	1	140	350		350	300		300	650		650	1500		1500	190		190

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						PAHs Combined				
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Combined Values ppb	Adj. Factor	Revised Conc. ppb	Ln. conc.	Injury Level
43	HCC-1B	1212	1212I	intertidal	2	7,601	2.0	15,202	9.6292	40%
44	Co-Trustee	HY-22	00156	subtidal	1	14,812	1.0	14,812	9.6032	40%
45	HCC-1B	1202	1202I	intertidal	4	7,318	2.0	14,636	9.5912	40%
46	Co-Trustee	HY-21	00136	subtidal	1	14,467	1.0	14,467	9.5796	40%
47	Co-Trustee	HY-23	00173	subtidal	1	14,415	1.0	14,415	9.5760	40%
48	Co-Trustee	HY-20	00127	subtidal	1	13,863	1.0	13,863	9.5370	40%
49	HCC-1A	3104	3104S	subtidal	1	6,726	2.0	13,452	9.5069	40%
50	HCC-1B	2212	2212I	intertidal	3	6,709	2.0	13,418	9.5044	40%
51	HCC-1A	1105	1105S	subtidal	1	6,680	2.0	13,360	9.5000	40%
52	HCC-1C	2112	2112S	subtidal	1	6,641	2.0	13,282	9.4942	40%
53	HCC-1B	5212	5212I	intertidal	6	6,605	2.0	13,210	9.4887	40%
54	Co-Trustee	HY-26	00217	subtidal	1	13,150	1.0	13,150	9.4842	40%
55	HCC-1C	3109	3109S	subtidal	1	6,483	2.0	12,966	9.4701	40%
56	HCC-1B	1210	1210I	intertidal	2	6,355	2.0	12,710	9.4501	40%
57	HCC-1C	1122	1122S	subtidal	1	5,994	2.0	11,988	9.3917	40%
58	HCC-1A	2111	2111S	subtidal	1	5,934	2.0	11,868	9.3816	40%
59	HCC-1A	2102	2102S	subtidal	1	5,897	2.0	11,794	9.3753	40%
60	HCC-1A	2110	2110S	subtidal	1	5,831	2.0	11,662	9.3641	40%
61	Co-Trustee	HY-28	00256	subtidal	1	11,653	1.0	11,653	9.3633	40%
62	HCC-1B	2205	2205I	intertidal	3	5,673	2.0	11,346	9.3366	40%
63	HCC-1C	1125	1125S	subtidal	1	5,630	2.0	11,260	9.3290	40%
64	Co-Trustee	HY-18	00082	subtidal	1	10,678	1.0	10,678	9.2759	40%
65	HCC-1C	1121	1121S	subtidal	1	5,322	2.0	10,644	9.2728	40%
66	HCC-1A	4107	4107S	subtidal	1	5,259	2.0	10,518	9.2608	40%
67	HCC-1A	2107	2107S	subtidal	1	5,174	2.0	10,348	9.2445	40%
68	Co-Trustee	HY-10	00326	subtidal	1	10,175	1.0	10,175	9.2277	40%
69	HCC-1A	4103	4103S	subtidal	1	5,072	2.0	10,144	9.2246	40%
70	HCC-1A	5106	5106S	subtidal	1	5,027	2.0	10,054	9.2157	40%
71	HCC-1A	1108	1108S	subtidal	1	4,962	2.0	9,924	9.2027	40%
72	HCC-1A	2109	2109S	subtidal	1	4,927	2.0	9,854	9.1956	40%
73	HCC-1B	2208	2208I	intertidal	2	4,903	2.0	9,806	9.1907	40%
74	HCC-1B	4209	4209I	intertidal	2	4,823	2.0	9,646	9.1743	40%
75	HCC-1C	1133	1133S	subtidal	1	4,795	2.0	9,590	9.1685	40%
76	HCC-1A	1106	1106S	subtidal	1	4,731	2.0	9,462	9.1550	40%
77	HCC-1A	5101	5101S	subtidal	1	4,713	2.0	9,426	9.1512	40%
78	Co-Trustee	HY-06		subtidal	1	9,331	1.0	9,331	9.1411	40%
79	HCC-1B	1213	1213I	intertidal	4	4,635	2.0	9,269	9.1344	40%
80	Co-Trustee	HY-27	00235	subtidal	1	9,154	1.0	9,154	9.1219	40%
81	HCC-1A	3105	3105S	subtidal	1	4,550	2.0	9,100	9.1160	40%
82	HCC-1C	3110	3110S	subtidal	1	4,510	2.0	9,020	9.1072	40%
83	Co-Trustee	HY-15	00031	subtidal	1	8,943	1.0	8,943	9.0986	40%
84	Co-Trustee	HY-08	00313	subtidal	1	8,913	1.0	8,913	9.0953	40%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Acenaphthene			Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
						Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
85	HCC-1A	2108	2108S	subtidal	1	28	J	28	14	U	7	95		95	320		320	340		340	770		770
86	HCC-1C	4119	4119S	subtidal	1	12	J	12	19	J	19	100		100	260		260	340		340	540		540
87	HCC-1B	2210	2210I	intertidal	5	45		45	34		34	160		160	260		260	260		260	560		560
88	HCC-1C	4118	4118S	subtidal	1	37		37	21		21	170		170	300		300	300		300	280		280
89	HCC-1C	1126	1126S	subtidal	1	29		29	20	U	10	100		100	260		260	270		270	550		550
90	HCC-1A	1103	1103S	subtidal	1	36	U	18	36	U	18	79		79	270		270	290		290	700		700
91	Co-Trustee	HY-05	00380	subtidal	1	25		25	51		51	800		800	560		560	390		390	1000		1000
92	HCC-1B	3221	3221I	intertidal	3	110		110	18	J	18	74		74	230		230	140		140	390		390
93	HCC-1B	3204	3204I	intertidal	3	21	J	21	33	U	16.5	110	J	110	440	J	440	250		250	540		540
94	Co-Trustee	HY-12	00275	subtidal	1	30		30	62		62	250		250	590		590	590		590	1600		1600
95	HCC-1B	3210	3210I	intertidal	2	21	J	21	25	J	25	74		74	340		340	210		210	400		400
96	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	19	U	9.5	79		79	200		200	320		320	650		650
97	Co-Trustee	HY-16	00044	subtidal	1	27	M(2)	26.5	43	M(2)	42.5	450	M(2)	450	365	M(2)	365	540	M(2)	540	1700	M(2)	1700
98	HCC-1B	3203	3203I	intertidal	2	39	J	39	27	U	13.5	93	J	93	310	J	310	280		280	380		380
99	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	19	U	9.5	89		89	220		220	300		300	540		540
100	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	17	U	8.5	77		77	200		200	370		370	540		540
101	HCC-1B	2204	2204I	intertidal	4	28		28	14	U	7	110		110	300		300	240		240	460		460
102	Co-Trustee	HY-09	00348	subtidal	1	19		19	63		63	300		300	520		520	420		420	1100		1100
103	HCC-1A	2104	2104S	subtidal	1	20	U	10	20	U	10	76		76	270		270	280		280	640		640
104	HCC-1A	5115	5115S	subtidal	1	24		24	19	U	9.5	120		120	280		280	260		260	430		430
105	Co-Trustee	HY-07	00352	subtidal	1	21		21	64		64	520		520	520		520	400		400	930		930
106	HCC-1B	5201	5201I	intertidal	2	64		64	27		27	160		160	220		220	170		170	250		250
107	HCC-1C	1119	1119S	subtidal	1	170		170	19	U	9.5	97		97	180		180	140		140	280		280
108	HCC-1A	2106	2106S	subtidal	1	75	U	37.5	75	U	37.5	75	U	37.5	160		160	210		210	580		580
109	HCC-1B	2207	2207I	intertidal	2	32		32	30		30	110		110	230		230	200		200	300		300
110	HCC-1C	4120	4120S	subtidal	1	29		29	21		21	110		110	190		190	250		250	380		380
111	HCC-1A	5109	5109S	subtidal	1	41		41	18	J	18	130		130	230		230	200		200	350		350
112	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	37	U	18.5	86		86	200		200	220		220	460		460
113	HCC-1A	4105	4105S	subtidal	1	32		32	37		37	290		290	240		240	170		170	310		310
114	HCC-1B	3216	3216I	intertidal	3	27	J	27	36	J	36	55		55	180		180	190		190	340		340
115	HCC-1B	3205	3205I	intertidal	2	31	J	31	18	J	18	52		52	170		170	180		180	340		340
116	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	19	U	9.5	110		110	220		220	220		220	600		600
117	HCC-1A	5112	5112S	subtidal	1	19	J	19	19	J	19	120		120	230		230	260		260	430		430
118	HCC-1A	3102	3102S	subtidal	1	18	J	18	20	J	20	66		66	230		230	190		190	320		320
119	HCC-1B	4204	4204I	intertidal	4	34	J	34	24	U	12	530		530	220		220	190		190	160		160
120	HCC-1B	4201	4201I	intertidal	4	91	U	45.5	91	U	45.5	130		130	190		190	170		170	260		260
121	HCC-1A	5111	5111S	subtidal	1	43		43	19	J	19	100		100	190		190	210		210	340		340
122	HCC-1B	2214	2214I	intertidal	2	32	U	16	32	U	16	41		41	160		160	220		220	310		310
123	HCC-1A	3106	3106S	subtidal	1	18	U	9	18	U	9	68		68	180		180	230		230	500		500
124	HCC-1A	4108	4108S	subtidal	1	21		21	21		21	74		74	160		160	150		150	340		340
125	HCC-1A	5108	5108S	subtidal	1	150		150	18	U	9	49		49	200		200	120		120	200		200
126	HCC-1A	1113	1113S	subtidal	1	36	U	18	36	U	18	91		91	200		200	150		150	380		380

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Benzo(ghi)perylene Report Value ppb	Qual. Code	Adj. Value ppb	Benzo(k)fluoranthene Report Value ppb	Qual. Code	Adj. Value ppb	Chrysene Report Value ppb	Qual. Code	Adj. Value ppb	Dibenzo(a,h)-anthracene Report Value ppb	Qual. Code	Adj. Value ppb	Fluoranthene Report Value ppb	Qual. Code	Adj. Value ppb	Fluoren Report Value ppb	Qual. Code
85	HCC-1A	2108	2108S	subtidal	1	140		140	270		270	730		730	100		100	510		510	28	J
86	HCC-1C	4119	4119S	subtidal	1	170		170	450		450	720		720	66		66	720		720	28	
87	HCC-1B	2210	2210I	intertidal	5	170		170	300		300	470		470	79		79	740		740	37	
88	HCC-1C	4118	4118S	subtidal	1	160		160	350		350	470		470	55		55	730		730	56	
89	HCC-1C	1126	1126S	subtidal	1	190		190	290		290	540		540	69		69	570		570	40	
90	HCC-1A	1103	1103S	subtidal	1	84		84	440		440	800		800	75		75	540		540	36	U
91	Co-Trustee	HY-05	00380	subtidal	1	220		220		***	0	810		810	56		56	1600		1600	190	
92	HCC-1B	3221	3221I	intertidal	3	20	J	20	240		240	470		470	33		33	1000		1000	100	
93	HCC-1B	3204	3204I	intertidal	3	66	J	66	370		370	930	J	930	23	U	11.5	370	J	370	29	J
94	Co-Trustee	HY-12	00275	subtidal	1	350		350		***	0	1000		1000	94		94	1100		1100	97	
95	HCC-1B	3210	3210I	intertidal	2	95		95	380		380	570		570	43	J	43	860		860	33	J
96	HCC-1A	1107	1107S	subtidal	1	140		140	520		520	580		580	97		97	340		340	19	U
97	Co-Trustee	HY-16	00044	subtidal	1	445	M(2)	445		***	0	835		835	104	M(2)	103.5	885	M(2)	885	113	M(2)
98	HCC-1B	3203	3203I	intertidal	2	160		160	380		380	470	J	470	39	J	39	580	J	580	38	J
99	HCC-1A	2103	2103S	subtidal	1	130		130	510		510	670		670	83		83	380		380	19	U
100	HCC-1A	2105	2105S	subtidal	1	110		110	620		620	640		640	41	N	41	320		320	17	J
101	HCC-1B	2204	2204I	intertidal	4	89		89	300		300	400		400	66		66	530		530	31	
102	Co-Trustee	HY-09	00348	subtidal	1	250		250		***	0	760		760	67		67	1400		1400	110	
103	HCC-1A	2104	2104S	subtidal	1	76		76	400		400	590		590	70		70	310		310	20	U
104	HCC-1A	5115	5115S	subtidal	1	43		43	360		360	570		570	47	N	47	580		580	40	
105	Co-Trustee	HY-07	00352	subtidal	1	220		220		***	0	680		680	55		55	1200		1200	110	
106	HCC-1B	5201	5201I	intertidal	2	27		27	210		210	330		330	52		52	560		560	89	
107	HCC-1C	1119	1119S	subtidal	1	58		58	130		130	310		310	25		25	720		720	98	
108	HCC-1A	2106	2106S	subtidal	1	79		79	350		350	460		460	52	U	26	380		380	75	U
109	HCC-1B	2207	2207I	intertidal	2	87		87	230		230	300		300	53		53	550		550	72	
110	HCC-1C	4120	4120S	subtidal	1	160		160	280		280	400		400	80		80	340		340	43	
111	HCC-1A	5109	5109S	subtidal	1	88		88	200		200	420		420	37	N	37	560		560	56	
112	HCC-1A	1109	1109S	subtidal	1	37	U	18.5	420		420	520		520	37	U	18.5	630		630	37	U
113	HCC-1A	4105	4105S	subtidal	1	80		80	210		210	440		440	34		34	480		480	51	
114	HCC-1B	3216	3216I	intertidal	3	89	J	89	380		380	370		370	19	U	9.5	470		470	32	J
115	HCC-1B	3205	3205I	intertidal	2	48	J	48	210		210	350		350	16	J	16	650		650	28	J
116	HCC-1A	1111	1111S	subtidal	1	89		89	270		270	520		520	58		58	420		420	19	U
117	HCC-1A	5112	5112S	subtidal	1	110		110	270		270	470		470	45	N	45	370		370	38	
118	HCC-1A	3102	3102S	subtidal	1	53		53	210		210	470		470	50		50	530		530	22	J
119	HCC-1B	4204	4204I	intertidal	4	60		60	150		150	300		300	22	J	22	640	J	640	34	J
120	HCC-1B	4201	4201I	intertidal	4	80	U	40	150		150	340		340	41	U	20.5	860	J	860	91	U
121	HCC-1A	5111	5111S	subtidal	1	90		90	220		220	360		360	46	N	46	410		410	57	
122	HCC-1B	2214	2214I	intertidal	2	150		150	220		220	360		360	63	J	63	520		520	32	U
123	HCC-1A	3106	3106S	subtidal	1	140		140	270		270	480		480	45		45	320		320	18	U
124	HCC-1A	4108	4108S	subtidal	1	99		99	250		250	380		380	37		37	500		500	27	
125	HCC-1A	5108	5108S	subtidal	1	47		47	140		140	240		240	24	J	24	450		450	100	
126	HCC-1A	1113	1113S	subtidal	1	47		47	250		250	480		480	41	N	41	600		600	36	U

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	le Adj. Value ppb	Indeno(1,2,3-cd)pyrene Report Value ppb	Qual. Code	Adj. Value ppb	Naphthalene Report Value ppb	Qual. Code	Adj. Value ppb	Phenanthrene Report Value ppb	Qual. Code	Adj. Value ppb	Pyrene Report Value ppb	Qual. Code	Adj. Value ppb	2-Methyl-naphthalene Report Value ppb	Qual. Code	Adj. Value ppb
85	HCC-1A	2108	2108S	subtidal	1	28	240		240	25	J	25	210		210	560		560	15	J	15
86	HCC-1C	4119	4119S	subtidal	1	28	170		170	20		20	170		170	580	J	580	13	J	13
87	HCC-1B	2210	2210I	intertidal	5	37	160		160	32		32	180		180	740		740	20		20
88	HCC-1C	4118	4118S	subtidal	1	56	150		150	14	J	14	370		370	760	J	760	14	J	14
89	HCC-1C	1126	1126S	subtidal	1	40	180		180	21		21	170		170	920		920	20	U	10
90	HCC-1A	1103	1103S	subtidal	1	18	170		170	36	U	18	120		120	550		550	36	U	18
91	Co-Trustee	HY-05	00380	subtidal	1	190	220		220	170		170	830		830	1300		1300	100		100
92	HCC-1B	3221	3221I	intertidal	3	100	77		77	20	J	20	580		580	630		630	19	J	19
93	HCC-1B	3204	3204I	intertidal	3	29	83	J	83	29	J	29	260	J	260	570	J	570	33	U	16.5
94	Co-Trustee	HY-12	00275	subtidal	1	97	350		350	230		230	480		480	1300		1300	100		100
95	HCC-1B	3210	3210I	intertidal	2	33	100		100	17	J	17	190		190	680		680	13	J	13
96	HCC-1A	1107	1107S	subtidal	1	9.5	180		180	19	U	9.5	120		120	720		720	19	U	9.5
97	Co-Trustee	HY-16	00044	subtidal	1	113	390	M(2)	390	160	M(2)	160	505	M(2)	505	1300	M(2)	1300	91	M(2)	91
98	HCC-1B	3203	3203I	intertidal	2	38	150		150	18	J	18	360	J	360	620	J	620	27	U	13.5
99	HCC-1A	2103	2103S	subtidal	1	9.5	170		170	19	U	9.5	150		150	640		640	19	U	9.5
100	HCC-1A	2105	2105S	subtidal	1	17	150		150	20	J	20	130		130	630		630	17	U	8.5
101	HCC-1B	2204	2204I	intertidal	4	31	170	J	170	14	U	7	400		400	630		630	14	U	7
102	Co-Trustee	HY-09	00348	subtidal	1	110	250		250	300		300	570		570	1300		1300	120		120
103	HCC-1A	2104	2104S	subtidal	1	10	180		180	20	U	10	140		140	650		650	20	U	10
104	HCC-1A	5115	5115S	subtidal	1	40	120		120	39		39	220		220	440		440	19	U	9.5
105	Co-Trustee	HY-07	00352	subtidal	1	110	230		230	200		200	550		550	1300		1300	130		130
106	HCC-1B	5201	5201I	intertidal	2	89	120		120	140		140	490		490	450		450	150		150
107	HCC-1C	1119	1119S	subtidal	1	98	69		69	29		29	510		510	570		570	19	U	9.5
108	HCC-1A	2106	2106S	subtidal	1	37.5	150		150	75	U	37.5	160		160	620		620	75	U	37.5
109	HCC-1B	2207	2207I	intertidal	2	72	160		160	100		100	430		430	470		470	23	J	23
110	HCC-1C	4120	4120S	subtidal	1	43	160		160	58		58	180		180	660		660	32		32
111	HCC-1A	5109	5109S	subtidal	1	56	130		130	64		64	270		270	550		550	20	J	20
112	HCC-1A	1109	1109S	subtidal	1	18.5	81		81	37	U	18.5	97		97	520		520	37	U	18.5
113	HCC-1A	4105	4105S	subtidal	1	51	79		79	72		72	200		200	590		590	29	J	29
114	HCC-1B	3216	3216I	intertidal	3	32	76		76	88		88	160		160	790		790	19	J	19
115	HCC-1B	3205	3205I	intertidal	2	28	55	J	55	22	J	22	360		360	710		710	12	J	12
116	HCC-1A	1111	1111S	subtidal	1	9.5	130		130	19	U	9.5	100		100	420		420	19	U	9.5
117	HCC-1A	5112	5112S	subtidal	1	38	140		140	30	J	30	190		190	430		430	14	J	14
118	HCC-1A	3102	3102S	subtidal	1	22	150		150	18	U	9	290		290	540		540	18	U	9
119	HCC-1B	4204	4204I	intertidal	4	34	79		79	24	U	12	350		350	370		370	24	U	12
120	HCC-1B	4201	4201I	intertidal	4	45.5	100		100	76	J	76	190		190	410		410	91	U	45.5
121	HCC-1A	5111	5111S	subtidal	1	57	130		130	57		57	220		220	510		510	26	J	26
122	HCC-1B	2214	2214I	intertidal	2	16	200		200	32	U	16	190		190	500		500	32	U	16
123	HCC-1A	3106	3106S	subtidal	1	9	140		140	21	J	21	120		120	460		460	18	U	9
124	HCC-1A	4108	4108S	subtidal	1	27	110		110	51		51	200		200	560		560	17	J	17
125	HCC-1A	5108	5108S	subtidal	1	100	62		62	130		130	530		530	400		400	94		94
126	HCC-1A	1113	1113S	subtidal	1	18	96		96	36	U	18	120		120	390		390	36	U	18

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						PAHs Combined					
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Combined Values	ppb	Adj. Factor	Revised Conc. ppb	Ln. conc.	Injury Level
85	HCC-1A	2108	2108S	subtidal	1		4,388	2.0	8,776	9.0798	40%
86	HCC-1C	4119	4119S	subtidal	1		4,378	2.0	8,756	9.0775	40%
87	HCC-1B	2210	2210I	intertidal	5		4,247	2.0	8,494	9.0471	40%
88	HCC-1C	4118	4118S	subtidal	1		4,237	2.0	8,474	9.0448	40%
89	HCC-1C	1126	1126S	subtidal	1		4,219	2.0	8,438	9.0405	40%
90	HCC-1A	1103	1103S	subtidal	1		4,208	2.0	8,416	9.0379	40%
91	Co-Trustee	HY-05	00380	subtidal	1		8,322	1.0	8,322	9.0267	40%
92	HCC-1B	3221	3221I	intertidal	3		4,151	2.0	8,302	9.0243	40%
93	HCC-1B	3204	3204I	intertidal	3		4,113	2.0	8,225	9.0149	40%
94	Co-Trustee	HY-12	00275	subtidal	1		8,223	1.0	8,223	9.0147	40%
95	HCC-1B	3210	3210I	intertidal	2		4,051	2.0	8,102	8.9999	40%
96	HCC-1A	1107	1107S	subtidal	1		3,994	2.0	7,987	8.9856	20%
97	Co-Trustee	HY-16	00044	subtidal	1		7,952	1.0	7,952	8.9811	20%
98	HCC-1B	3203	3203I	intertidal	2		3,944	2.0	7,888	8.9731	20%
99	HCC-1A	2103	2103S	subtidal	1		3,930	2.0	7,859	8.9694	20%
100	HCC-1A	2105	2105S	subtidal	1		3,891	2.0	7,781	8.9594	20%
101	HCC-1B	2204	2204I	intertidal	4		3,775	2.0	7,550	8.9293	20%
102	Co-Trustee	HY-09	00348	subtidal	1		7,549	1.0	7,549	8.9292	20%
103	HCC-1A	2104	2104S	subtidal	1		3,732	2.0	7,464	8.9178	20%
104	HCC-1A	5115	5115S	subtidal	1		3,592	2.0	7,184	8.8796	20%
105	Co-Trustee	HY-07	00352	subtidal	1		7,130	1.0	7,130	8.8721	20%
106	HCC-1B	5201	5201I	intertidal	2		3,509	2.0	7,018	8.8562	20%
107	HCC-1C	1119	1119S	subtidal	1		3,405	2.0	6,810	8.8261	20%
108	HCC-1A	2106	2106S	subtidal	1		3,400	2.0	6,800	8.8247	20%
109	HCC-1B	2207	2207I	intertidal	2		3,377	2.0	6,754	8.8179	20%
110	HCC-1C	4120	4120S	subtidal	1		3,373	2.0	6,746	8.8167	20%
111	HCC-1A	5109	5109S	subtidal	1		3,364	2.0	6,728	8.8140	20%
112	HCC-1A	1109	1109S	subtidal	1		3,364	2.0	6,727	8.8139	20%
113	HCC-1A	4105	4105S	subtidal	1		3,344	2.0	6,688	8.8081	20%
114	HCC-1B	3216	3216I	intertidal	3		3,312	2.0	6,623	8.7983	20%
115	HCC-1B	3205	3205I	intertidal	2		3,252	2.0	6,504	8.7802	20%
116	HCC-1A	1111	1111S	subtidal	1		3,205	2.0	6,409	8.7655	20%
117	HCC-1A	5112	5112S	subtidal	1		3,185	2.0	6,370	8.7594	20%
118	HCC-1A	3102	3102S	subtidal	1		3,177	2.0	6,354	8.7568	20%
119	HCC-1B	4204	4204I	intertidal	4		3,175	2.0	6,350	8.7562	20%
120	HCC-1B	4201	4201I	intertidal	4		3,119	2.0	6,237	8.7383	20%
121	HCC-1A	5111	5111S	subtidal	1		3,028	2.0	6,056	8.7088	20%
122	HCC-1B	2214	2214I	intertidal	2		3,014	2.0	6,028	8.7042	20%
123	HCC-1A	3106	3106S	subtidal	1		3,010	2.0	6,020	8.7028	20%
124	HCC-1A	4108	4108S	subtidal	1		2,997	2.0	5,994	8.6985	20%
125	HCC-1A	5108	5108S	subtidal	1		2,945	2.0	5,890	8.6810	20%
126	HCC-1A	1113	1113S	subtidal	1		2,935	2.0	5,870	8.6776	20%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Acenaphthene			Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
						Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
127	HCC-1A	4115	4115S	subtidal	1	34	U	17	34	U	17	100		100	160		160	160		160	320		320
128	Co-Trustee	HY-11	00295	subtidal	1	21		21	38		38	160		160	350		350	350		350	1100		1100
129	HCC-1B	4208	4208I	intertidal	3	30		30	20	J	20	66	JM(3)	66	144.25	M(4)	144.3	147.8	JM(4)	147.8	250	JM(3)	250
130	Co-Trustee	HY-04	00420	subtidal	1	20		20	61		61	170		170	340		340	340		340	870		870
131	HCC-1A	5103	5103S	subtidal	1	25		25	14	J	14	140		140	190		190	190		190	300		300
132	HCC-1A	4109		subtidal	1	25.75	JM(4)	25.75	22.5	JM(4)	22.5	106	M(4)	105.5	177	M(4)	177	179.3	M(4)	179.3	265	M(4)	265
133	HCC-1A	5116	5116S	subtidal	1	19	U	9.5	19	U	9.5	90		90	180		180	180		180	280		280
134	HCC-1B	2215	2215I	intertidal	7	31	U	15.5	31	U	15.5	32	J	32	120		120	140		140	440		440
135	HCC-1A	3101	3101S	subtidal	1	12	J	12	16	J	16	68		68	150		150	180		180	280		280
136	HCC-1B	4202	4202I	intertidal	3	15	J	15	25	U	12.5	110		110	180		180	190		190	220		220
137	HCC-1A	1112	1112S	subtidal	1	37	U	18.5	37	U	18.5	56		56	140		140	130		130	360		360
138	HCC-1B	3201		intertidal	4	63		63	20	J	20	80	JM(3)	79.75	112.75	M(4)	112.8	78.25	M(4)	78.25	143	M(4)	143
139	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	17	U	8.5	44		44	140		140	170		170	440		440
140	HCC-1A	3103	3103S	subtidal	1	16	U	8	16	U	8	46		46	120		120	160		160	330		330
141	Co-Trustee	HY-14	00020	subtidal	1	22		22	34		34	110		110	240		240	280		280	840		840
142	HCC-1C	1124	1124S	subtidal	1	20	U	10	20	U	10	37		37	100		100	180		180	370		370
143	HCC-1A	5104	5104S	subtidal	1	18	J	18	10	J	10	65		65	140		140	120		120	200		200
144	HCC-1B	4206	4206I	intertidal	3	13	U	6.5	13	U	6.5	60		60	180		180	130		130	160		160
145	HCC-1B	3219	3219I	intertidal	3	27	J	27	31	U	15.5	26	J	26	110		110	130		130	190		190
146	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	15	U	7.5	27	J	27	120		120	110	J	110	300	J	300
147	Co-Trustee	HY-02	00443	subtidal	1	19		19	46		46	130		130	200		200	230		230	560		560
148	HCC-1B	1208	1208I	intertidal	2	47	U	23.5	47	U	23.5	79	J	79	150		150	83		83	260		260
149	HCC-1B	3217	3217I	intertidal	2	22	J	22	15	U	7.5	24	J	24	82		82	91		91	150		150
150	Co-Trustee	HY-17	00062	subtidal	1	5.3		5.3	11		11	60		60	130		130	290		290	890		890
151	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	13	U	6.5	30		30	130		130	140		140	280		280
152	HCC-1C	5120	5120S	subtidal	1	19	U	9.5	19	U	9.5	58		58	130		130	130		130	170		170
153	HCC-1B	4203	4203I	intertidal	2	17	J	17	18	J	18	65		65	110		110	89		89	140		140
154	HCC-1A	5102	5102S	subtidal	1	12	J	12	16	U	8	98		98	110		110	110		110	150		150
155	HCC-1A	5107		subtidal	1	16	JM(3)	16	12.33	JM(3)	12.33	65	M(4)	65.25	118	M(4)	118	117.5	M(4)	117.5	210	M(4)	210
156	HCC-1B	4210	4210I	intertidal	3	33	U	16.5	33	U	16.5	28	J	28	120	J	120	100		100	200		200
157	Co-Trustee	HY-13	00012	subtidal	1	23		23	61		61	120		120	180		180	150		150	440		440
158	HCC-1B	3212	3212I	intertidal	2	34	U	17	34	U	17	23	J	23	100		100	86		86	200		200
159	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	19	U	9.5	48		48	100		100	120		120	210		210
160	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	19	U	9.5	47		47	100		100	110		110	200		200
161	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	15	U	7.5	36		36	120		120	46	J	46	140	J	140
162	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	13	J	13	42		42	94	J	94	61		61	120		120
163	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	15	U	7.5	81		81	75		75	94		94	190		190
164	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	15	U	7.5	48		48	100		100	74		74	120		120
165	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	13	U	6.5	34		34	70		70	65		65	89		89
166	HCC-1A	5105	5105S	subtidal	1	16	U	8	16	U	8	48		48	83		83	84		84	140		140
167	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	17	U	8.5	21	J	21	75		75	69		69	110		110
168	HCC-1B	4207	4207I	intertidal	3	17	J	17	12	U	6	29		29	79		79	55		55	130		130

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						Benzo(ghi)perylene			Benzo(k)fluoranthene			Chrysene			Dibenzo(a,h)-anthracene			Fluoranthene			Fluoren
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code
127	HCC-1A	4115	4115S	subtidal	1	76		76	300		300	440		440	76		76	380		380	34	U
128	Co-Trustee	HY-11	00295	subtidal	1	240		240		***	0	610		610	57		57	830		830	60	
129	HCC-1B	4208	4208I	intertidal	3	78	JM(4)	78	212.5	JM(4)	212.5	320	M(4)	320	43.6667	JM(3)	43.6667	670	J	670	36	JM(2)
130	Co-Trustee	HY-04	00420	subtidal	1	200		200		***	0	480		480	51		51	900		900	71	
131	HCC-1A	5103	5103S	subtidal	1	76		76	210		210	360		360	34		34	360		360	37	
132	HCC-1A	4109		subtidal	1	94	M(4)	94	181.75	M(4)	181.75	337.5	M(4)	337.5	43.33	JM(3)	43.33	170		170	37.75	JM(4)
133	HCC-1A	5116	5116S	subtidal	1	56		56	240		240	370		370	32	N	32	360		360	25	J
134	HCC-1B	2215	2215I	intertidal	7	51	J	51	230		230	340		340	42	J	42	340		340	31	U
135	HCC-1A	3101	3101S	subtidal	1	85		85	220		220	380		380	32		32	300		300	18	J
136	HCC-1B	4202	4202I	intertidal	3	61		61	160		160	310		310	28	J	28	540	J	540	21	J
137	HCC-1A	1112	1112S	subtidal	1	47		47	220		220	370		370	37	U	18.5	440		440	37	U
138	HCC-1B	3201		intertidal	4	44.5	JM(3)	44.5	119.75	M(4)	119.75	225	M(4)	225	24	JM(3)	24	535	M(4)	535	44.5	JM(4)
139	HCC-1A	1110	1110S	subtidal	1	42		42	230		230	370		370	28	J	28	270		270	17	U
140	HCC-1A	3103	3103S	subtidal	1	35		35	200		200	310		310	22	J	22	320		320	16	U
141	Co-Trustee	HY-14	00020	subtidal	1	190		190		***	0	470		470	45		45	600		600	47	
142	HCC-1C	1124	1124S	subtidal	1	100		100	250		250	330		330	43		43	200		200	9	J
143	HCC-1A	5104	5104S	subtidal	1	110		110	150		150	230		230	70	N	70	300		300	23	J
144	HCC-1B	4206	4206I	intertidal	3	74		74	180		180	230		230	35	J	35	370		370	18	J
145	HCC-1B	3219	3219I	intertidal	3	42	J	42	210		210	220		220	24	U	12	320		320	20	J
146	HCC-1B	1211	1211I	intertidal	2	64	J	64	170	J	170	320		320	24	J	24	350		350	15	U
147	Co-Trustee	HY-02	00443	subtidal	1	160		160		***	0	290		290	38		38	570		570	64	
148	HCC-1B	1208	1208I	intertidal	2	49	J	49	190		190	250		250	47	U	23.5	300		300	47	U
149	HCC-1B	3217	3217I	intertidal	2	63		63	180		180	200		200	29	J	29	350		350	21	J
150	Co-Trustee	HY-17	00062	subtidal	1	230		230		***	0	430		430	48		48	300		300	18	
151	HCC-1B	1217	1217I	intertidal	5	46		46	200		200	300		300	23	J	23	300		300	13	U
152	HCC-1C	5120	5120S	subtidal	1	62		62	140		140	190		190	40		40	290		290	22	
153	HCC-1B	4203	4203I	intertidal	2	31		31	72		72	210		210	12	U	6	490	J	490	45	
154	HCC-1A	5102	5102S	subtidal	1	81		81	160		160	220		220	36	N	36	280		280	29	J
155	HCC-1A	5107		subtidal	1	58.25	M(4)	58.25	112	M(4)	112	227.5	M(4)	227.5	26.6667	JM(3)	26.6667	252.5	M(4)	252.5	25.25	JM(4)
156	HCC-1B	4210	4210I	intertidal	3	67		67	160		160	210	J	210	25	U	12.5	270	J	270	20	J
157	Co-Trustee	HY-13	00012	subtidal	1	110		110		***	0	330		330	24		24	560		560	68	
158	HCC-1B	3212	3212I	intertidal	2	49	J	49	140		140	220		220	34	U	17	280		280	34	U
159	HCC-1A	5110	5110S	subtidal	1	51		51	140		140	200		200	22	N	22	210		210	15	J
160	HCC-1A	5114	5114S	subtidal	1	54		54	140		140	230		230	30		30	190		190	19	U
161	HCC-1B	1206	1206I	intertidal	4	42	J	42	120	J	120	290		290	15	U	7.5	280		280	15	U
162	HCC-1B	1204	1204I	intertidal	4	42		42	110		110	190	J	190	20	J	20	410		410	11	J
163	HCC-1A	5113	5113S	subtidal	1	42		42	72		72	180		180	25	J	25	160		160	23	J
164	HCC-1A	4102	4102S	subtidal	1	36		36	58		58	220		220	21	J	21	170		170	20	J
165	HCC-1B	5213	5213I	intertidal	4	43		43	100		100	120		120	21	J	21	270		270	15	J
166	HCC-1A	5105	5105S	subtidal	1	16	U	8	100		100	160		160	16	U	8	160		160	19	J
167	HCC-1B	3209	3209I	intertidal	3	37		37	100		100	170		170	17	U	8.5	230		230	17	U
168	HCC-1B	4207	4207I	intertidal	3	12	U	6	83		83	170		170	13	J	13	230		230	20	J

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	le Adj. Value ppb	Indeno(1,2,3-cd)pyrene Report Value ppb	Qual. Code	Adj. Value ppb	Naphthalene Report Value ppb	Qual. Code	Adj. Value ppb	Phenanthrene Report Value ppb	Qual. Code	Adj. Value ppb	Pyrene Report Value ppb	Qual. Code	Adj. Value ppb	2-Methyl-naphthalene Report Value ppb	Qual. Code	Adj. Value ppb
127	HCC-1A	4115	4115S	subtidal	1	17	130		130	36		36	170		170	380		380	34	U	17
128	Co-Trustee	HY-11	00295	subtidal	1	60	210		210	150		150	340		340	1000		1000	75		75
129	HCC-1B	4208	4208I	intertidal	3	36	113	JM(4)	113	49	M(2)	49	154.5	M(4)	154.5	405	M(4)	405	20	J	20
130	Co-Trustee	HY-04	00420	subtidal	1	71	200		200	160		160	420		420	1000		1000	87		87
131	HCC-1A	5103	5103S	subtidal	1	37	100		100	30		30	180		180	370		370	15	J	15
132	HCC-1A	4109		subtidal	1	37.75	103	M	103	71.75	JM(4)	71.75	215	M(4)	215	442.5	M(4)	442.5	29	JM(3)	29
133	HCC-1A	5116	5116S	subtidal	1	25	100		100	26	J	26	190		190	340		340	19	U	9.5
134	HCC-1B	2215	2215I	intertidal	7	15.5	120		120	31	U	15.5	96		96	380		380	31	U	15.5
135	HCC-1A	3101	3101S	subtidal	1	18	120		120	19	J	19	130		130	370		370	18	U	9
136	HCC-1B	4202	4202I	intertidal	3	21	89		89	24	J	24	150		150	250		250	14	J	14
137	HCC-1A	1112	1112S	subtidal	1	18.5	87		87	37	U	18.5	88		88	320		320	37	U	18.5
138	HCC-1B	3201		intertidal	4	44.5	49.25	JM(4)	49.25	37		37	347.25	M(4)	347.25	367.5	M(4)	367.5	28.00	UM(4)	14
139	HCC-1A	1110	1110S	subtidal	1	8.5	79		79	17	U	8.5	71		71	340		340	17	U	8.5
140	HCC-1A	3103	3103S	subtidal	1	8	83		83	16	U	8	180		180	370		370	16	U	8
141	Co-Trustee	HY-14	00020	subtidal	1	47	170		170	170		170	260		260	780		780	65		65
142	HCC-1C	1124	1124S	subtidal	1	9	91		91	20	U	10	58		58	330	J	330	20	U	10
143	HCC-1A	5104	5104S	subtidal	1	23	160		160	23	J	23	140		140	330		330	10	J	10
144	HCC-1B	4206	4206I	intertidal	3	18	110		110	13	U	6.5	140		140	340		340	13	U	6.5
145	HCC-1B	3219	3219I	intertidal	3	20	54		54	31	U	15.5	230		230	380		380	31	U	15.5
146	HCC-1B	1211	1211I	intertidal	2	7.5	55	J	55	15	U	7.5	110		110	310		310	15	U	7.5
147	Co-Trustee	HY-02	00443	subtidal	1	64	160		160	130		130	400		400	760		760	61		61
148	HCC-1B	1208	1208I	intertidal	2	23.5	63	J	63	47	U	23.5	60	J	60	280		280	47	U	23.5
149	HCC-1B	3217	3217I	intertidal	2	21	80		80	15	U	7.5	270		270	310		310	15	U	7.5
150	Co-Trustee	HY-17	00062	subtidal	1	18	180		180	54		54	100		100	950		950	21		21
151	HCC-1B	1217	1217I	intertidal	5	6.5	54		54	13	U	6.5	73		73	250		250	13	U	6.5
152	HCC-1C	5120	5120S	subtidal	1	22	79		79	24		24	120		120	360		360	22		22
153	HCC-1B	4203	4203I	intertidal	2	45	41		41	17	J	17	240		240	240		240	18	J	18
154	HCC-1A	5102	5102S	subtidal	1	29	91		91	20	J	20	150		150	200		200	9	J	9
155	HCC-1A	5107		subtidal	1	25.25	75.25	M(4)	75.25	25.5	JM(4)	25.5	120.25	M(4)	120.25	282.5	M(4)	282.5	13	JM(4)	12.75
156	HCC-1B	4210	4210I	intertidal	3	20	54		54	27	J	27	90	J	90	340	J	340	33	U	16.5
157	Co-Trustee	HY-13	00012	subtidal	1	68	91		91	320		320	270		270	630		630	100		100
158	HCC-1B	3212	3212I	intertidal	2	17	51	J	51	34	U	17	68		68	300		300	34	U	17
159	HCC-1A	5110	5110S	subtidal	1	15	80		80	21	J	21	90		90	270		270	19	U	9.5
160	HCC-1A	5114	5114S	subtidal	1	9.5	98		98	19	J	19	90		90	210		210	19	U	9.5
161	HCC-1B	1206	1206I	intertidal	4	7.5	32	J	32	15	U	7.5	62		62	280		280	15	U	7.5
162	HCC-1B	1204	1204I	intertidal	4	11	42		42	13	U	6.5	140		140	150	J	150	13	U	6.5
163	HCC-1A	5113	5113S	subtidal	1	23	75		75	19	J	19	96		96	220		220	15	U	7.5
164	HCC-1A	4102	4102S	subtidal	1	20	40		40	26	J	26	91		91	190		190	15	U	7.5
165	HCC-1B	5213	5213I	intertidal	4	15	57		57	13	U	6.5	100		100	170		170	13	U	6.5
166	HCC-1A	5105	5105S	subtidal	1	19	38		38	24	J	24	81		81	190		190	16	U	8
167	HCC-1B	3209	3209I	intertidal	3	8.5	44		44	17	U	8.5	55		55	180		180	17	U	8.5
168	HCC-1B	4207	4207I	intertidal	3	20	30	J	30	12	U	6	100		100	160		160	12	U	6

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						PAHs Combined					
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Combined Values	ppb	Adj. Factor	Revised Conc. ppb	Ln. conc.	Injury Level
127	HCC-1A	4115	4115S	subtidal	1		2,796	2.0	5,592	8.6291	20%
128	Co-Trustee	HY-11	00295	subtidal	1		5,591	1.0	5,591	8.6289	20%
129	HCC-1B	4208	4208I	intertidal	3		2,760	2.0	5,519	8.6160	20%
130	Co-Trustee	HY-04	00420	subtidal	1		5,370	1.0	5,370	8.5886	20%
131	HCC-1A	5103	5103S	subtidal	1		2,631	2.0	5,262	8.5683	20%
132	HCC-1A	4109		subtidal	1		2,501	2.0	5,001	8.5174	20%
133	HCC-1A	5116	5116S	subtidal	1		2,498	2.0	4,995	8.5162	20%
134	HCC-1B	2215	2215I	intertidal	7		2,409	2.0	4,817	8.4799	20%
135	HCC-1A	3101	3101S	subtidal	1		2,389	2.0	4,778	8.4718	20%
136	HCC-1B	4202	4202I	intertidal	3		2,375	2.0	4,749	8.4657	20%
137	HCC-1A	1112	1112S	subtidal	1		2,369	2.0	4,738	8.4634	20%
138	HCC-1B	3201		intertidal	4		2,305	2.0	4,609	8.4358	20%
139	HCC-1A	1110	1110S	subtidal	1		2,267	2.0	4,533	8.4191	20%
140	HCC-1A	3103	3103S	subtidal	1		2,216	2.0	4,432	8.3966	20%
141	Co-Trustee	HY-14	00020	subtidal	1		4,323	1.0	4,323	8.3717	20%
142	HCC-1C	1124	1124S	subtidal	1		2,138	2.0	4,276	8.3608	20%
143	HCC-1A	5104	5104S	subtidal	1		2,099	2.0	4,198	8.3424	20%
144	HCC-1B	4206	4206I	intertidal	3		2,053	2.0	4,106	8.3202	20%
145	HCC-1B	3219	3219I	intertidal	3		2,018	2.0	4,035	8.3028	20%
146	HCC-1B	1211	1211I	intertidal	2		1,998	2.0	3,995	8.2928	20%
147	Co-Trustee	HY-02	00443	subtidal	1		3,818	1.0	3,818	8.2475	20%
148	HCC-1B	1208	1208I	intertidal	2		1,905	2.0	3,810	8.2454	20%
149	HCC-1B	3217	3217I	intertidal	2		1,895	2.0	3,789	8.2399	20%
150	Co-Trustee	HY-17	00062	subtidal	1		3,717	1.0	3,717	8.2208	20%
151	HCC-1B	1217	1217I	intertidal	5		1,859	2.0	3,717	8.2207	20%
152	HCC-1C	5120	5120S	subtidal	1		1,856	2.0	3,712	8.2193	20%
153	HCC-1B	4203	4203I	intertidal	2		1,849	2.0	3,698	8.2155	20%
154	HCC-1A	5102	5102S	subtidal	1		1,764	2.0	3,528	8.1685	20%
155	HCC-1A	5107		subtidal	1		1,757	2.0	3,515	8.1648	20%
156	HCC-1B	4210	4210I	intertidal	3		1,748	2.0	3,496	8.1594	20%
157	Co-Trustee	HY-13	00012	subtidal	1		3,477	1.0	3,477	8.1539	20%
158	HCC-1B	3212	3212I	intertidal	2		1,619	2.0	3,238	8.0827	20%
159	HCC-1A	5110	5110S	subtidal	1		1,606	2.0	3,211	8.0743	20%
160	HCC-1A	5114	5114S	subtidal	1		1,556	2.0	3,112	8.0430	20%
161	HCC-1B	1206	1206I	intertidal	4		1,493	2.0	2,986	8.0017	20%
162	HCC-1B	1204	1204I	intertidal	4		1,465	2.0	2,929	7.9824	20%
163	HCC-1A	5113	5113S	subtidal	1		1,375	2.0	2,749	7.9190	20%
164	HCC-1A	4102	4102S	subtidal	1		1,237	2.0	2,473	7.8132	20%
165	HCC-1B	5213	5213I	intertidal	4		1,180	2.0	2,360	7.7664	20%
166	HCC-1A	5105	5105S	subtidal	1		1,167	2.0	2,334	7.7553	20%
167	HCC-1B	3209	3209I	intertidal	3		1,142	2.0	2,284	7.7337	20%
168	HCC-1B	4207	4207I	intertidal	3		1,140	2.0	2,280	7.7319	20%

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Acenaphthene			Acenaphthylene			Anthracene			Benzo(a)anthracene			Benzo(a)pyrene			Benzo(b)fluoranthene		
						Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
169	HCC-1C	5121	5121S	subtidal	1	20	U	10	20	U	10	42		42	75		75	89		89	100		100
170	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	13	U	6.5	16	J	16	50		50	43		43	87		87
171	Co-Trustee	HY-01	00456	subtidal	1	9.8		9.8	17		17	71		71	98		98	92		92	240		240
172	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	27	U	13.5	27	U	13.5	50	J	50	33	J	33	51	J	51
173	HCC-1B	5214	5214I	intertidal	6	13	U	6.5	11	J	11			0	49		49	50	J	50	62	J	62
174	HCC-1C	3108		subtidal	1	20	UM	10	20	UM	10	8.5	JM	8.5	33	M	32.83	36	M	35.67	67	M	66.667
175	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	8	J	8	12	J	12	28		28	40		40	72		72
176	HCC-1C	1123	1123S	subtidal	1	20	U	10	20	U	10	20	U	10	26		26	24		24	48		48
177	HCC-1B	3206	3206I	intertidal	3	6	J	6	12	U	6	14	J	14	35		35	33		33	38		38
178	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	17	U	8.5	17	U	8.5	19	J	19	17	J	17	42	J	42
179	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	13	U	6.5	13	U	6.5	17	J	17	32		32	51		51
180	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	13	U	6.5	13	U	6.5	20	J	20	19	J	19	33	J	33
181	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	15	U	7.5	15	U	7.5	15	U	7.5	15	U	7.5	30	J	30
182	HCC-1A	4111	4111S	subtidal	1	25		25	12	U	6	10	J	10	12	U	6	8	J	8	12	U	6
183	HCC-1A	4110	4110S	subtidal	1	12	U	6	12	U	6	12	U	6	12	U	6	12	U	6	12	U	6

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						Benzo(ghi)perylene			Benzo(k)fluoranthene			Chrysene			Dibenzo(a,h)-anthracene			Fluoranthene			Fluoren
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code
169	HCC-1C	5121	5121S	subtidal	1	54		54	110		110	120		120	18	J	18	160		160	13	J
170	HCC-1B	1215	1215I	intertidal	4	27		27	77		77	90		90	14	J	14	310		310	13	U
171	Co-Trustee	HY-01	00456	subtidal	1	65		65		***	0	140		140	15		15	240		240	31	
172	HCC-1B	1214	1214I	intertidal	3	27	U	13.5	65		65	75		75	27	U	13.5	170		170	27	U
173	HCC-1B	5214	5214I	intertidal	6	32	J	32	52	J	52	75		75	11	U	5.5	100	J	100	13	U
174	HCC-1C	3108		subtidal	1	24	M	23.5	48	M	47.667	80	M	79.5	14	M	13.6667	70	M	69.67	20	UM
175	HCC-1B	3207	3207I	intertidal	2	27		27	51		51	74		74	13	J	13	74		74	13	U
176	HCC-1C	1123	1123S	subtidal	1	23		23	30		30	70		70	20	U	10	88		88	20	U
177	HCC-1B	3206	3206I	intertidal	3	11	U	5.5	43		43	48		48	12	U	6	72		72	8	J
178	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	30	J	30	40	J	40	17	U	8.5	49		49	17	U
179	HCC-1B	3220	3220I	intertidal	3	27		27	42		42	39		39	15	J	15	21	J	21	13	U
180	HCC-1B	2213	2213I	intertidal	4	16	J	16	21	J	21	46	J	46	13	U	6.5	41		41	13	U
181	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	20	J	20	31		31	15	U	7.5	40		40	15	U
182	HCC-1A	4111	4111S	subtidal	1	12	U	6	12	U	6	12	U	6	12	U	6	12		12	7	J
183	HCC-1A	4110	4110S	subtidal	1	12	U	6	12	U	6	12	U	6	12	U	6	12	U	6	12	U

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						le	Indeno(1,2,3-cd)pyrene			Naphthalene			Phenanthrene			Pyrene			2-Methyl-naphthalene		
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb	Report Value ppb	Qual. Code	Adj. Value ppb
169	HCC-1C	5121	5121S	subtidal	1	13	57		57	20	U	10	69		69	180		180	10	J	10
170	HCC-1B	1215	1215I	intertidal	4	6.5	24		24	13	U	6.5	68		68	190		190	13	U	6.5
171	Co-Trustee	HY-01	00456	subtidal	1	31	61		61	83		83	160		160	320		320	57		57
172	HCC-1B	1214	1214I	intertidal	3	13.5	27	U	13.5	27	U	13.5	44	J	44	110		110	27	U	13.5
173	HCC-1B	5214	5214I	intertidal	6	6.5	28	J	28	13	U	6.5	46	J	46	110	J	110	13	U	6.5
174	HCC-1C	3108		subtidal	1	10	23	M	23.1667	20	UM	10	21	M	21	107	JM	106.83	20	UM	10
175	HCC-1B	3207	3207I	intertidal	2	6.5	26		26	13	U	6.5	24		24	51		51	13	U	6.5
176	HCC-1C	1123	1123S	subtidal	1	10	20	U	10	20	U	10	34		34	100		100	20	U	10
177	HCC-1B	3206	3206I	intertidal	3	8	14	J	14	12	U	6	80		80	88		88	12	U	6
178	HCC-1B	1207	1207I	intertidal	2	8.5	17	U	8.5	17	U	8.5	17	U	8.5	74		74	17	U	8.5
179	HCC-1B	3220	3220I	intertidal	3	6.5	26		26	13	U	6.5	13	U	6.5	34	J	34	13	U	6.5
180	HCC-1B	2213	2213I	intertidal	4	6.5	10	U	5	13	U	6.5	17	J	17	46	J	46	13	U	6.5
181	HCC-1B	1209	1209I	intertidal	3	7.5	15	U	7.5	15	U	7.5	18	J	18	37		37	15	U	7.5
182	HCC-1A	4111	4111S	subtidal	1	7	12	U	6	9	J	9	46		46	10	J	10	12	U	6
183	HCC-1A	4110	4110S	subtidal	1	6	12	U	6	12	U	6	12	U	6	12	U	6	12	U	6

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-31.--Sediment sampling data used to map injury footprints for Polycyclic Aromatic Hydrocarbons (PAHs) in Hylebos Waterway. Injury threshold = 1,000 ppb dw.

						PAHs Combined					
	Survey	Station Number	Field I.D. or Sample No.	Type of Station	# of Data Points*	Combined Values	ppb	Adj. Factor	Revised Conc. ppb	Ln. conc.	Injury Level
169	HCC-1C	5121	5121S	subtidal	1		1,127	2.0	2,254	7.7205	20%
170	HCC-1B	1215	1215I	intertidal	4		1,029	2.0	2,057	7.6290	20%
171	Co-Trustee	HY-01	00456	subtidal	1		1,700	1.0	1,700	7.4383	20%
172	HCC-1B	1214	1214I	intertidal	3		720	2.0	1,439	7.2717	20%
173	HCC-1B	5214	5214I	intertidal	6		647	2.0	1,293	7.1647	20%
174	HCC-1C	3108		subtidal	1		579	2.0	1,157	7.0539	20%
175	HCC-1B	3207	3207I	intertidal	2		526	2.0	1,052	6.9584	20%
176	HCC-1C	1123	1123S	subtidal	1		523	2.0	1,046	6.9527	20%
177	HCC-1B	3206	3206I	intertidal	3		509	2.0	1,017	6.9246	20%
178	HCC-1B	1207	1207I	intertidal	2		356	2.0	712	6.5681	--
179	HCC-1B	3220	3220I	intertidal	3		350	2.0	699	6.5497	--
180	HCC-1B	2213	2213I	intertidal	4		310	2.0	619	6.4281	--
181	HCC-1B	1209	1209I	intertidal	3		259	2.0	517	6.2480	--
182	HCC-1A	4111	4111S	subtidal	1		181	2.0	362	5.8916	--
183	HCC-1A	4110	4110S	subtidal	1		102	2.0	204	5.3181	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
*** -- Reported values already combined with Benzo(b)flouranthene.

Table D-32. Sampling data used to map injury footprints for 1,4 Dichlorobenzene (pDCB) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
1	HCC-1B	5203	5203I	intertidal	2	730		730	1.7	1,241.0	7.124	20%
2	Co-Trustee	HY-06		subtidal	1	100.7	M(3)	100.7	1.0	100.7	4.612	--
3	Co-Trustee	HY-10	338	subtidal	1	50.0		50.0	1.0	50.0	3.912	--
4	Co-Trustee	HY-04	418	subtidal	1	47.0		47.0	1.0	47.0	3.850	--
5	Co-Trustee	HY-12	279	subtidal	1	44.0		44.0	1.0	44.0	3.784	--
6	Co-Trustee	HY-03	428	subtidal	1	43.3	M(3)	43.3	1.0	43.3	3.769	--
7	Co-Trustee	HY-09	350	subtidal	1	40.0		40.0	1.0	40.0	3.689	--
8	Co-Trustee	HY-08	318	subtidal	1	35.0		35.0	1.0	35.0	3.555	--
9	HCC-1A	5101	5101S	subtidal	1	20	J	20	1.7	34.0	3.526	--
10	Co-Trustee	HY-05	383	subtidal	1	31.0		31.0	1.0	31.0	3.434	--
11	HCC-1A	5104	5104S	subtidal	1	17	N	17	1.7	28.9	3.364	--
12	Co-Trustee	HY-11	297	subtidal	1	28.0		28.0	1.0	28.0	3.332	--
13	HCC-1A	5111	5111S	subtidal	1	16	J	16	1.7	27.2	3.303	--
14	Co-Trustee	HY-07	351	subtidal	1	25.0		25.0	1.0	25.0	3.219	--
15	Co-Trustee	HY-21	141	subtidal	1	23.0		23.0	1.0	23.0	3.135	--
16	Co-Trustee	HY-19		subtidal	1	22.7	M(3)	22.7	1.0	22.7	3.121	--
17	HCC-1B	5210		intertidal	2	26	U	13.0	1.7	22.1	3.096	--
18	HCC-1B	5212	5212I	intertidal	6	26	U	13.0	1.7	22.1	3.096	--
19	HCC-1B	5205	5205I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
20	HCC-1B	5207	5207I	intertidal	2	25	U	12.5	1.7	21.3	3.056	--
21	Co-Trustee	HY-18	77	subtidal	1	21.0		21.0	1.0	21.0	3.045	--
22	HCC-1A	5105	5105S	subtidal	1	12	J	12	1.7	20.4	3.016	--
23	HCC-1B	5209	5209I	intertidal	5	12	J	12	1.7	20.4	3.016	--
24	Co-Trustee	HY-02	442	subtidal	1	19.0		19.0	1.0	19.0	2.944	--
25	Co-Trustee	HY-16	43	subtidal	1	19.0	M(2)	19.0	1.0	19.0	2.944	--
26	HCC-1B	1201		intertidal	2	20	UM(4)	10.0	1.7	17.0	2.833	--
27	HCC-1A	2104	2104S	subtidal	1	20	U	10	1.7	17.0	2.833	--
28	HCC-1A	2111	2111S	subtidal	1	20	U	10	1.7	17.0	2.833	--
29	HCC-1A	5103	5103S	subtidal	1	10	J	10	1.7	17.0	2.833	--
30	Co-Trustee	HY-15	33	subtidal	1	17.0		17.0	1.0	17.0	2.833	--
31	Co-Trustee	HY-20	130	subtidal	1	17.0		17.0	1.0	17.0	2.833	--
32	HCC-1A	1107	1107S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
33	HCC-1A	1111	1111S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
34	HCC-1A	2103	2103S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
35	HCC-1A	4105	4105S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
36	HCC-1B	4208	4208I	intertidal	3	19	UM(4)	9.5	1.7	16.2	2.782	--
37	HCC-1A	5110	5110S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
38	HCC-1A	5112	5112S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
39	HCC-1A	5114	5114S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
40	HCC-1A	5115	5115S	subtidal	1	19	U	9.5	1.7	16.2	2.782	--
41	HCC-1A	5116	5116S	subtidal	1	19	U	10	1.7	16.2	2.782	--
42	Co-Trustee	HY-24	194	subtidal	1	16.0		16.0	1.0	16.0	2.773	--
43	Co-Trustee	HY-25	207	subtidal	1	16.0		16.0	1.0	16.0	2.773	--
44	HCC-1A	1102	1102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
45	HCC-1A	1106	1106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
46	HCC-1A	2101	2101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-32. Sampling data used to map injury footprints for 1,4 Dichlorobenzene (pDCB) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
47	HCC-1A	2102	2102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
48	HCC-1A	2107	2107S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
49	HCC-1A	2110	2110S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
50	HCC-1A	3101	3101S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
51	HCC-1A	3102	3102S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
52	HCC-1A	3104	3104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
53	HCC-1A	3105	3105S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
54	HCC-1A	3106	3106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
55	HCC-1A	4103	4103S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
56	HCC-1A	4104	4104S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
57	HCC-1A	5106	5106S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
58	HCC-1A	5108	5108S	subtidal	1	18	U	9.0	1.7	15.3	2.728	--
59	Co-Trustee	HY-23	176	subtidal	1	15.0		15.0	1.0	15.0	2.708	--
60	HCC-1A	4109		subtidal	1	18	UM(4)	8.8	1.7	14.9	2.700	--
61	HCC-1A	1110	1110S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
62	HCC-1B	1207	1207I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
63	HCC-1A	2105	2105S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
64	HCC-1B	3209	3209I	intertidal	3	17	U	8.5	1.7	14.5	2.671	--
65	HCC-1B	3210	3210I	intertidal	2	17	U	8.5	1.7	14.5	2.671	--
66	HCC-1A	4101	4101S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
67	HCC-1A	4107	4107S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
68	HCC-1A	4110	4110S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
69	HCC-1A	4111	4111S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
70	HCC-1A	5107		subtidal	1	17	UM(4)	8.5	1.7	14.5	2.671	--
71	HCC-1A	5109	5109S	subtidal	1	17	U	8.5	1.7	14.5	2.671	--
72	Co-Trustee	HY-22	159	subtidal	1	14.0		14.0	1.0	14.0	2.639	--
73	HCC-1A	3103	3103S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
74	HCC-1A	5102	5102S	subtidal	1	16	U	8.0	1.7	13.6	2.610	--
75	Co-Trustee	HY-28	270	subtidal	1	13.3	M(3)	13.3	1.0	13.3	2.590	--
76	HCC-1B	1206	1206I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
77	HCC-1B	1209	1209I	intertidal	3	15	U	7.5	1.7	12.8	2.546	--
78	HCC-1B	1211	1211I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
79	HCC-1B	1213	1213I	intertidal	4	15	U	7.5	1.7	12.8	2.546	--
80	HCC-1B	3205	3205I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
81	HCC-1B	3217	3217I	intertidal	2	15	U	7.5	1.7	12.8	2.546	--
82	HCC-1A	4102	4102S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
83	HCC-1A	5113	5113S	subtidal	1	15	U	7.5	1.7	12.8	2.546	--
84	Co-Trustee	HY-14		subtidal	1	12.0		12.0	1.0	12.0	2.485	--
85	Co-Trustee	HY-26	222	subtidal	1	12.0		12.0	1.0	12.0	2.485	--
86	HCC-1B	1210	1210I	intertidal	2	14	U	7.0	1.7	11.9	2.477	--
87	HCC-1B	1212	1212I	intertidal	2	14	U	7.0	1.7	11.9	2.477	--
88	HCC-1B	1216	1216I	intertidal	3	14	U	7.0	1.7	11.9	2.477	--
89	HCC-1A	2108	2108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	--
90	HCC-1B	2204	2204I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
91	HCC-1B	3211	3211I	intertidal	4	14	U	7.0	1.7	11.9	2.477	--
92	HCC-1A	4108	4108S	subtidal	1	14	U	7.0	1.7	11.9	2.477	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-32. Sampling data used to map injury footprints for 1,4 Dichlorobenzene (pDCB) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
93	HCC-1B	1204	1204I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
94	HCC-1B	1215	1215I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
95	HCC-1B	1217	1217I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
96	HCC-1B	2207	2207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
97	HCC-1B	2210	2210I	intertidal	5	13	U	6.5	1.7	11.1	2.402	--
98	HCC-1B	2213	2213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
99	HCC-1B	3207	3207I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
100	HCC-1B	3220	3220I	intertidal	3	13	U	6.5	1.7	11.1	2.402	--
101	HCC-1B	4206	4206I	intertidal	3	13	U	7	1.7	11.1	2.402	--
102	HCC-1B	5201	5201I	intertidal	2	13	U	6.5	1.7	11.1	2.402	--
103	HCC-1B	5213	5213I	intertidal	4	13	U	6.5	1.7	11.1	2.402	--
104	HCC-1B	3201		intertidal	4	12.50	UM(4)	6.3	1.7	10.6	2.363	--
105	HCC-1B	3206	3206I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
106	HCC-1B	3221	3221I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
107	HCC-1B	4207	4207I	intertidal	3	12	U	6.0	1.7	10.2	2.322	--
108	Co-Trustee	HY-27	243	subtidal	1	10.0		10.0	1.0	10.0	2.303	--
109	Co-Trustee	HY-01	455	subtidal	1	8.6		8.6	1.0	8.6	2.152	--
110	HCC-1A	1103	1103S	subtidal	1	10	U	5.0	1.7	8.5	2.140	--
111	HCC-1B	5211	5211I	intertidal	2	10	U	5.0	1.7	8.5	2.140	--
112	Co-Trustee	HY-13	10	subtidal	1	7.3		7.3	1.0	7.3	1.988	--
113	HCC-1A	1101		subtidal	1	7.3	UM(4)	3.7	1.7	6.2	1.825	--
114	Co-Trustee	HY-17	61	subtidal	1	5.7		5.7	1.0	5.7	1.740	--
115	HCC-1A	1108	1108S	subtidal	1	2.8	U	1.4	1.7	2.4	0.867	--
116	HCC-1C	1121	1121 S	subtidal	1	2.7	U	1.4	1.7	2.3	0.831	--
117	HCC-1A	1105	1105S	subtidal	1	2.6	U	1.3	1.7	2.2	0.793	--
118	HCC-1C	1118	1118 S	subtidal	1	2.6	U	1.3	1.7	2.2	0.793	--
119	HCC-1A	1104	1104S	subtidal	1	2.3	U	1.2	1.7	2.0	0.670	--
120	HCC-1A	2109	2109S	subtidal	1	2.3	U	1.2	1.7	2.0	0.670	--
121	HCC-1B	4209	4209I	intertidal	2	2.2	U	1.1	1.7	1.9	0.626	--
122	HCC-1C	1133	1133 S	subtidal	1	2.1	U	1.1	1.7	1.8	0.579	--
123	HCC-1A	1109	1109S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
124	HCC-1A	1112	1112S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
125	HCC-1A	1113	1113S	subtidal	1	2.0	U	1.0	1.7	1.7	0.531	--
126	HCC-1C	3109	3109 S	subtidal	1	2	U	1.0	1.7	1.7	0.531	--
127	HCC-1B	3213	3213I	intertidal	2	2.0	U	1.0	1.7	1.7	0.531	--
128	HCC-1C	2112	2112 S	subtidal	1	1.9	U	1.0	1.7	1.6	0.479	--
129	HCC-1C	1117	1117 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
130	HCC-1B	1208	1208I	intertidal	2	1.8	U	0.9	1.7	1.5	0.425	--
131	HCC-1A	2106	2106S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
132	HCC-1C	2114	2114 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
133	HCC-1C	3110	3110 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
134	HCC-1C	4120	4120 S	subtidal	1	1.8	U	0.9	1.7	1.5	0.425	--
135	HCC-1C	1123	1123 S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--
136	HCC-1C	1125	1125 S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--
137	HCC-1A	4106	4106S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--
138	HCC-1C	4117	4117 S	subtidal	1	1.7	U	0.9	1.7	1.4	0.368	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-32. Sampling data used to map injury footprints for 1,4 Dichlorobenzene (pDCB) in Hylebos Waterway. Injury threshold =110 ppb dw.

	Survey	Station Number	Field I.D.	Type of Station	# of Data Points*	Reported Conc. ppb	Qual. Code	Revised Conc. ppb	Adj. Factor	Adjusted Conc. ppb	Ln Conc.	Injury Level
139	HCC-1C	2115	2115 S	subtidal	1	1.6	U	0.8	1.7	1.4	0.307	--
140	HCC-1A	4115	4115S	subtidal	1	1.5	U	0.8	1.7	1.3	0.243	--
141	HCC-1C	1120	1120 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
142	HCC-1C	1122	1122 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
143	HCC-1C	1126	1126 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
144	HCC-1B	1202	1202I	intertidal	4	1.4	U	0.7	1.7	1.2	0.174	--
145	HCC-1B	2202	2202I	intertidal	2	1.4	U	0.7	1.7	1.2	0.174	--
146	HCC-1B	2206	2206I	intertidal	6	1.4	U	0.7	1.7	1.2	0.174	--
147	HCC-1B	2211	2211I	intertidal	2	1.4	U	0.7	1.7	1.2	0.174	--
148	HCC-1B	2215	2215I	intertidal	7	1.4	U	0.7	1.7	1.2	0.174	--
149	HCC-1B	3212	3212I	intertidal	2	1.4	U	0.7	1.7	1.2	0.174	--
150	HCC-1B	3215	3215I	intertidal	2	1.4	U	0.7	1.7	1.2	0.174	--
151	HCC-1B	3216	3216I	intertidal	3	1.4	U	0.7	1.7	1.2	0.174	--
152	HCC-1B	3219	3219I	intertidal	3	1.4	U	0.7	1.7	1.2	0.174	--
153	HCC-1C	4118	4118 S	subtidal	1	1.4	U	0.7	1.7	1.2	0.174	--
154	HCC-1C	2113	2113 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
155	HCC-1B	2212	2212I	intertidal	3	1.3	U	0.7	1.7	1.1	0.100	--
156	HCC-1C	3107	3107 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
157	HCC-1B	3214	3214I	intertidal	2	1.3	U	0.7	1.7	1.1	0.100	--
158	HCC-1C	5120	5120 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
159	HCC-1C	5121	5121 S	subtidal	1	1.3	U	0.7	1.7	1.1	0.100	--
160	HCC-1C	1119	1119 S	subtidal	1	1.2	U	0.6	1.7	1.0	0.020	--
161	HCC-1C	1124	1124 S	subtidal	1	1.2	U	0.6	1.7	1.0	0.020	--
162	HCC-1B	1203	1203I	intertidal	7	1.2	U	0.6	1.7	1.0	0.020	--
163	HCC-1B	2205	2205I	intertidal	3	1.2	U	0.6	1.7	1.0	0.020	--
164	HCC-1B	2209	2209I	intertidal	2	1.2	U	0.6	1.7	1.0	0.020	--
165	HCC-1B	2214	2214I	intertidal	2	1.2	U	0.6	1.7	1.0	0.020	--
166	HCC-1C	4119	4119 S	subtidal	1	1.2	U	0.6	1.7	1.0	0.020	--
167	HCC-1B	4203	4203I	intertidal	2	1.2	U	0.6	1.7	1.0	0.020	--
168	HCC-1B	5206	5206I	intertidal	2	1.2	U	0.6	1.7	1.0	0.020	--
169	HCC-1C	5215	5215 I	intertidal	2	1.2	U	0.60	1.7	1.0	0.020	--
170	HCC-1B	2208	2208I	intertidal	2	1.1	U	0.6	1.7	0.9	0.000**	--
171	HCC-1C	3108		subtidal	1	1.1	UM	0.6	1.7	0.9	0.000**	--
172	HCC-1C	4116	4116 S	subtidal	1	1.1	U	0.6	1.7	0.9	0.000**	--
173	HCC-1B	4201	4201I	intertidal	4	1.1	U	0.6	1.7	0.9	0.000**	--
174	HCC-1B	4205	4205I	intertidal	3	1.1	U	0.6	1.7	0.9	0.000**	--
175	HCC-1B	4210	4210I	intertidal	3	1.1	U	0.6	1.7	0.9	0.000**	--
176	HCC-1B	5214	5214I	intertidal	6	1.1	U	0.55	1.7	0.9	0.000**	--
177	HCC-1B	1214	1214I	intertidal	3	1.0	U	0.5	1.7	0.9	0.000**	--
178	HCC-1B	3203	3203I	intertidal	2	1.0	U	0.5	1.7	0.9	0.000**	--
179	HCC-1B	3204	3204I	intertidal	3	1.0	U	0.5	1.7	0.9	0.000**	--
180	HCC-1B	4202	4202I	intertidal	3	1.0	U	0.5	1.7	0.9	0.000**	--
181	HCC-1B	4204	4204I	intertidal	4	1.0	U	0.5	1.7	0.9	0.000**	--
182	HCC-1B	5202	5202I	intertidal	6	1.0	U	0.5	1.7	0.9	0.000**	--
183	HCC-1B	5208	5208I	intertidal	2	1.0	U	0.5	1.7	0.9	0.000**	--

*--Intertidal sediment sampling stations contain two or more data points. See Step 8, Appendix E for explanation.
**--Log normal transformations for concentrations < 0 rounded to 0.000 to eliminate negative numbers

Table D-33. A summary of available data on biological effects associated with sediment-sorbed Total Polychlorinated Biphenyls (ppb dw, @2.3%TOC). (Summarized data). adapted from MacDonald 1994 (Table A4-23). Only studies showing concordance between concentrations and effects are listed.

Cum. %	Total PCBs ppm @ 1% TOC	Total PCBs ppb,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.03	0.0172	40	Galveston Bay, TX	COA	1-h	toxic	20.4% fertilization	echinoderm[1]		Carr 1992
0.06	0.0199	46	San Francisco Bay	COA	48-h	moderately toxic	57.1% mortality	Mussel	larvae	Chapman et al. 1987
0.09	0.0447	103	San Francisco Bay	COA	10-d	most toxic	95% mortality	amphipod	adult	Chapman et al. 1987
0.11	0.0447	103	San Francisco Bay	COA	10-d	highly toxic	37% avoidance	amphipod	adult	Chapman et al. 1987
0.14	0.0547	126	San Francisco Bay	COA	10-d	moderately toxic	28.3% mortality	amphipod	adult	Chapman et al. 1987
0.17	0.0571	131	San Francisco Bay	COA	48-h	highly toxic	92.3% mortality	Mussel	larvae	Chapman et al. 1987
0.2	0.0571	131	San Francisco Bay	COA	4-wk	moderately toxic	94.9 young produced	copepod[6]	adult	Chapman et al. 1987
0.23	0.0607	140	San Francisco Bay	COA	48-h	highly toxic	66.8% abnormal	Mussel	larvae	Chapman et al. 1987
0.26	0.1124	259	Tampa Bay, FL	COA	1-h	moderately toxic	15.3% fertilization	sea urchin[1]	gamete	Long 1993
0.29	0.1400	322	Commencement Bay	COA	48-h	moderately toxic	23% abnormality	Oyster	larvae	Tetra Tech 1985
0.31	0.1460	336	San Francisco Bay	COA	10-d	toxic	42.9% mortality	amphipod[4]	adult	Long and Morgan 1990
0.34	0.1510	347	San Francisco Bay	COA	10-d	moderately toxic	33.8% mortality	amphipod[4]	adult	Long and Morgan 1990
0.37	0.1640	377	San Francisco Bay	COA	48-h	highly toxic	92.4% abnormal	bivalve	larvae	Long and Morgan 1990
0.4	0.1650	380	San Francisco Bay	COA	48-h	moderately toxic	59.4% abnormal	bivalve	larvae	Long and Morgan 1990
0.43	0.2110	485	Southern California	COA	35-d	toxic	growth rate: 0.003g ww/d	sea urchin[3]	adult	Anderson et al. 1988
0.46	0.2110	485	Southern California	COA	35-d	toxic	growth: .004 mm/d	sea urchin[3]	adult	Anderson et al. 1988
0.49	0.2465	567	Puget Sound, WA	COA	15-min	toxic	EC50	Microtox[8]		Pastorok and Becker 1990
	0.3038	699					ERM; SEC			
0.51	0.3038	699	Puget Sound, WA	COA	2-d	toxic	60.4% abnormal develop.	sand dollar[10]	embryo	Pastorok and Becker 1990
0.54	0.3588	825	Puget Sound, WA	COA	10-d	toxic	80.8% mortality	amphipod[4]	adult	Pastorok and Becker 1990
0.57	0.3680	846	Commencement Bay	COA	48-h	highly toxic	44.5% abnormality	Oyster	larvae	Tetra Tech 1985
0.6	0.3943	907	Tampa Bay, FL	COA	1-h	most toxic	.091% fertilization	sea urchin[1]	gamete	Long 1993
0.63	0.4369	1,005	Puget Sound, WA	COA	20-d	toxic	37.3% mortality	polycheate[11]	embryo	Pastorok and Becker 1990
0.66	0.4521	1,040	Tampa Bay, FL	COA	10-d	toxic	35.2% mortality	amphipod[5]	subadt	Long 1993
0.69	0.5110	1,175	Tampa Bay, FL	COA		toxic	EC50	Microtox[8]		Long 1993
0.71	0.5650	1,300	Southern California	COA	35-d	toxic	growth: .002 g WW/d	sea urchin[3]	adult	Bay et al. 1994
0.74	0.6060	1,394	Southern California	COA	1.3-h	toxic	9.4% fertilization	sea urchin[12]	gamete	Bay et al. 1994
0.77	0.6380	1,467	Hudson-Raritan Bay	COA	14-d	toxic	reduced growth rate	nematode[13]		Tietjen and Lee 1984
0.8	0.6931	1,594	Southern California	COA	10-d	moderately toxic	35.9% mortality	amphipod[4]	adult	Swartz et al. 1991
0.83	0.8380	1,927	Puget Sound, WA	COA	28-d	toxic	69.5% mortality	sand dollar[10]	juvenile	Casillas et al. 1992
0.86	0.8380	1,927	Puget Sound, WA	COA	28-d	toxic	growth: .013 mm/d	sand dollar[10]	juvenile	Casillas et al. 1992
0.89	1.0000	2,300	Southern California	COA		low abundance	35.3 N/0.1 sq. m.	Arthropods		Word and Mearns 1979
0.91	1.1000	2,530	Baltimore Hbr. MD	COA	48-h	most toxic	TLm	fish[14]		Tsai et al. 1979
0.94	1.1000	2,530	Baltimore Hbr. MD	COA	48-h	most toxic	TLm	fish[15]		Tsai et al. 1979

Table D-33. A summary of available data on biological effects associated with sediment-sorbed Total Polychlorinated Biphenyls (ppb dw, @2.3%TOC). (Summarized data). adapted from MacDonald 1994 (Table A4-23). Only studies showing concordance between concentrations and effects are listed.

Cum. %	Total PCBs ppm @ 1% TOC	Total PCBs ppb,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.97	1.3000	2,990	Southern California	COA		low abundance	6.1 N/0.1 sq. m	echinoderm		Word and Mearns 1979
1	2.3700	5,451	Southern California	COA	10-d	most toxic	78.6% mortality	amphipod[4]	adult	Swartz et al. 1991

[1] = *Arbacia punctulata*
[2] = *Mysidopsis bahia*
[3] = *Lytechinus pictus*
[4] = *Rhepoxynius abronius*
[5] = *Ampelisca abdita*
[6] = *Tigripus californicus*
[7] = *Grandidierella japonica*
[8] = *Photobacterium phosphoreum*
[9] = *Panope generosa*
[10] = *Dendraster excentricus*
[11] = *Neanthes arenaceodentata*
[12] = *Strongylocentrotus purpuratus*
[13] = *Chromadorina germanica*
[14] = *Fundulus heteroclitus* (mummichog)
[15] = *Leiostomus xanthurus* (spot)

Table D-34. A summary of available data on biological effects associated with sediment-sorbed Total Polychlorinated Biphenyls (ppb dw, @2.3%TOC). (Unsummarized data.) Adapted from MacDonald 1994 (Table A4-24). Only studies showing concordance between concentrations and effects are included.

Cum. %	Total PCBs ppm @ 1% TOC	Total PCBs ppb,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.04	0.2286	526	Southern California	COA	10-d	toxic	51.9% mortality	amphipod[2]	adult	Anderson et al. 1988
0.09	0.2951	679	Southern California	COA	10-d	moderately toxic	22.5% mortality	amphipod[1]	adult	Swartz et al. 1991
	0.3040	699	Sediment Effects Concentration							
0.13	0.3572	822	Southern California	COA	35-d	toxic	0.005g WW/d growth	sea urchin[3]	adult	Anderson et al. 1988
0.17	0.3572	822	Southern California	COA	35-d	toxic	0.008 mm/d growth	sea urchin[3]	adult	Anderson et al. 1988
0.22	0.3916	901	Southern California	COA	10-d	moderately toxic	28.8% mortality	amphipod[1]	adult	Swartz et al. 1991
0.26	0.4694	1,080	Southern California	COA	10-d	moderately toxic	40% mortality	amphipod[1]	adult	Swartz et al. 1991
0.3	0.5767	1,326	Southern California	COA		toxic	0.002 g/d growth	sea urchin[3]	adult	Bay et al. 1994
0.35	0.5767	1,326	Southern California	COA	1.3-h	toxic	1% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.39	0.6214	1,429	Southern California	COA	1.3-h	toxic	0% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.43	0.6918	1,591	Southern California	COA	10-d	moderately toxic	47.5% mortality	amphipod[1]	adult	Swartz et al. 1991
0.48	1.0100	2,323	Southern California	COA	10-d	most toxic	78.8% mortality	amphipod[1]	adult	Swartz et al. 1991
	1.1000	2,530	ER-M							
0.52	1.1000	2,530	Southern California	COA	1.3-h	toxic	1% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.57	1.1000	2,530	Southern California	COA		toxic	0.002 g/d growth	sea urchin[3]	adult	Bay et al. 1994
0.61	1.3100	3,013	Southern California	COA	10-d	most toxic	76.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.65	1.5400	3,542	Southern California	COA	10-d	most toxic	82.5% mortality	amphipod[1]	adult	Swartz et al. 1991
0.7	1.5700	3,611	Southern California	COA	10-d	moderately toxic	43.8% mortality	amphipod[1]	adult	Swartz et al. 1991
0.74	1.6200	3,726	Southern California	COA	10-d	moderately toxic	37.5% mortality	amphipod[1]	adult	Swartz et al. 1991
0.78	1.6800	3,864	Southern California	COA	10-d	most toxic	66.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.83	2.3300	5,359	Southern California	COA	10-d	most toxic	90% mortality	amphipod[1]	adult	Swartz et al. 1991
0.87	2.3500	5,405	Southern California	COA	10-d	most toxic	81.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.91	3.1300	7,199	Southern California	COA	10-d	most toxic	63.8% mortality	amphipod[1]	adult	Swartz et al. 1991
0.96	3.1900	7,337	Southern California	COA	10-d	most toxic	85% mortality	amphipod[1]	adult	Swartz et al. 1991
1	4.8400	11,132	Southern California	COA	10-d	most toxic	83.8% mortality	amphipod[1]	adult	Swartz et al. 1991

[1] = *Rhepoxynius abronius*
[2] = *Grandidierella japonica*
[3] = *Lytechinus pictus*
[4] = *Strongylocentrotus purpuratus*

Table D-35. A summary of available data on biological effects associated with sediment-sorbed p,p' DDD (ppm dw, @2.3% TOC), adapted from MacDonald 1994. Unsummarized data). (Note: values derived from SumDDD table* (i.e.,Table A4-12).

Cum. %	Sum DDD ppm @ 1% TOC	p,p'DDD ppm,dw @2.3%TO	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.019	0.0261	0.05	Southern California	COA		toxic	0 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.038	0.0685	0.14	Southern California	COA	1.3h	toxic	0.2 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.058	0.1219	0.24	Southern California	COA		toxic	661 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.077	0.1219	0.24	Southern California	COA		toxic	18.6 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.096	0.1219	0.24	Southern California	COA		toxic	0 N/0.1 sq m	amphipod		Swartz et al. 1985
0.115	0.1219	0.24	Southern California	COA		toxic	10.8 N/0.1 sq m	crustacean		Swartz et al. 1985
0.135	0.1219	0.24	Southern California	COA		toxic	0 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.154	0.1425	0.28	Southern California	COA	35-d	toxic	0.005 g WW/d growth	echinoderm		Anderson et al. 1988
0.173	0.1425	0.28	Southern California	COA	35-d	toxic	.008 mm/d growth	echinoderm	adult	Anderson et al. 1988
0.192	0.1750	0.35	Southern California	COA	1.3-h	toxic	38% fertilization	echinoderm	gamete	Bay et al. 1994
0.212	0.1840	0.37	Southern California	COA	1.3-h	toxic	1% fertilization	echinoderm	gamete	Bay et al. 1994
0.231	0.1908	0.38	Southern California	COA	10-d	moderately toxic	22.5% mortality	amphipod	adult	Swartz et al. 1991
0.25	0.2116	0.42	Southern California	COA	10-d	moderately toxic	40% mortality	amphipod	adult	Swartz et al. 1991
0.269	0.2157	0.43	Southern California	COA	1.3-h	toxic	0% fertilization	echinoderm	gamete	Bay et al. 1994
0.288	0.2348	0.47	Southern California	COA		toxic	720 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.308	0.2348	0.47	Southern California	COA		toxic	41.2 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.327	0.2348	0.47	Southern California	COA		toxic	1.6 N/0.1 sq m	amphipod		Swartz et al. 1985
0.346	0.2348	0.47	Southern California	COA		toxic	7 N/0.1 sq m	crustacean		Swartz et al. 1985
0.365	0.2348	0.47	Southern California	COA		toxic	0 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.385	0.2894	0.57	Southern California	COA		moderately toxic	28.8% mortality	amphipod	adult	Swartz et al. 1991
0	0.2990	0.59	SEC							
0	0.4070	0.81	ER-M							
0.404	0.4071	0.81	Southern California	COA		toxic	18.4; infaunal index	benthic invts.		Swartz et al. 1985
0.423	0.4071	0.81	Southern California	COA		toxic	9.8 g/0.1 sq m	benthic invts.		Swartz et al. 1985
0.442	0.4071	0.81	Southern California	COA	10-d	toxic	84% mortality	amphipod	adult	Swartz et al. 1985
0.462	0.4071	0.81	Southern California	COA		toxic	307 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.481	0.4071	0.81	Southern California	COA		toxic	28.8 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.5	0.4071	0.81	Southern California	COA		toxic	2.4 N/0.1 sq m	amphipod		Swartz et al. 1985
0.519	0.4071	0.81	Southern California	COA		toxic	15.6 N/0.1 sq m	crustacean		Swartz et al. 1985
0.538	0.4071	0.81	Southern California	COA		toxic	0.2 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.558	0.4324	0.86	Southern California	COA		toxic	4.6; infaunal index	benthic invts.		Swartz et al. 1985
0.577	0.4324	0.86	Southern California	COA		toxic	6.4 g/0.1 sq m	benthic invts.		Swartz et al. 1985
0.596	0.4324	0.86	Southern California	COA		toxic	84.6% mortality	amphipod	adult	Swartz et al. 1985
0.615	0.4324	0.86	Southern California	COA		toxic	372 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.635	0.4324	0.86	Southern California	COA		toxic	15.8 S/0.1 sq m	benthic invts.		Swartz et al. 1985

p,p'DDD back-calculated from estimated Sum DDD values reported by MacDonald 1994.
Conversion factor (Sum DDD multiplied by 0.863) determined from data reported by Bay et al. 1994.

Table D-35. A summary of available data on biological effects associated with sediment-sorbed p,p' DDD (ppm dw, @2.3% TOC), adapted from MacDonald 1994. Unsummarized data). (Note: values derived from SumDDD table* (i.e.,Table A4-12).

Cum. %	Sum DDD ppm @ 1% TOC	p,p'DDD ppm,dw @2.3%TO	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.654	0.4324	0.86	Southern California	COA		toxic	0 N/0.1 sq m	amphipod		Swartz et al. 1985
0.673	0.4324	0.86	Southern California	COA		toxic	1.4 N/0.1 sq m	crustacean		Swartz et al. 1985
0.692	0.4324	0.86	Southern California	COA		toxic	0 N/0.1 sq m	echinoderm	adult	Swartz et al. 1985
0.712	0.4535	0.90	Southern California	COA	10-d	moderately toxic	43.8% mortality	amphipod	adult	Swartz et al. 1991
0.731	0.5621	1.12	Southern California	COA	10-d	moderately toxic	37.5% mortality	amphipod	adult	Swartz et al. 1991
0.75	0.7523	1.49	Southern California	COA	10-d	most toxic	81.3% mortality	amphipod	adult	Swartz et al. 1991
0.769	0.7697	1.53	Southern California	COA	10-d	moderately toxic	31.3% mortality	amphipod	adult	Swartz et al. 1991
0.788	0.9217	1.83	Southern California	COA	10-d	moderately toxic	36.3% mortality	amphipod	adult	Swartz et al. 1991
0.808	1.0700	2.12	Southern California	COA	35-d	toxic	.002 g WW/d growth	echinoderm-	adult	Bay et al. 1994
0.827	1.0700	2.12	Southern California	COA	1.3-h	toxic	1% fertilization	echinoderm	gamete	Bay et al. 1994
0.846	1.2400	2.46	Southern California	COA	10-d	most toxic	63.8% mortality	amphipod	adult	Swartz et al. 1991
0.865	1.4000	2.78	Southern California	COA	10-d	most toxic	83.8% mortality	amphipod	adult	Swartz et al. 1991
0.885	1.4900	2.96	Southern California	COA	10-d	most toxic	66.3% mortality	amphipod	adult	Swartz et al. 1991
0.904	1.7900	3.55	Southern California	COA	10-d	most toxic	82.5% mortality	amphipod	adult	Swartz et al. 1991
0.923	1.8400	3.65	Southern California	COA	10-d	most toxic	78.8% mortality	amphipod	adult	Swartz et al. 1991
0.942	1.9700	3.91	Southern California	COA	10-d	moderately toxic	47.5% mortality	amphipod	adult	Swartz et al. 1991
0.962	2.0500	4.07	Southern California	COA	10-d	most toxic	85% mortality	amphipod	adult	Swartz et al. 1991
0.981	2.0700	4.11	Southern California	COA	10-d	most toxic	90% mortality	amphipod	adult	Swartz et al. 1991
1	3.7100	7.36	Southern California	COA	10-d	most toxic	76.3% mortality	amphipod	adult	Swartz et al. 1991

p,p'DDD back-calculated from estimated Sum DDD values reported by MacDonald 1994.
Conversion factor (Sum DDD multiplied by 0.863) determined from data reported by Bay et al. 1994.

Table D-36. A summary of available data on biological effects associated with sediment-sorbed p,p' DDD (ppm dw @2.3%TOC), adapted from MacDonald 1994. (Summarized data). (Note: values derived from SumDDD table* Table A4-11).

Cum. %	Sum DDE ppm @ 1% TOC	p,p'DDE ppm,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.07	0.0726	0.14	Southern California	COA	35-d	toxic	.003 g ww/d growth	sea urchin[3]	adult	Anderson et al. 1988
0.14	0.0726	0.144	Southern California	COA	35-d	toxic	.004 mm/d growth	sea urchin[3]	adult	Anderson et al. 1988
0.21	0.2155	0.428	Southern California	COA		toxic	abundance: 0.07 N/0.1 sq m	echinoderms		Swartz et al. 1985
0.29	0.2387	0.474	Southern California	COA		toxic	abundance: 535 N/0.1 sq m	benthic invts.		Swartz et al. 1985
	0.2990	0.593					ER-M; SEC			
0.36	0.2990	0.593	Southern California	COA		toxic	diversity: 26 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.43	0.2990	0.593	Southern California	COA		toxic	abundance 1 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.50	0.2990	0.593	Southern California	COA		toxic	abundance 8.7 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.57	0.3210	0.637	Southern California	COA		toxic	8.6: infaunal index	benthic invts.		Swartz et al. 1985
0.64	0.3210	0.637	Southern California	COA		toxic	biomass: 9.7 g/0.1 sq m	benthic invts.		Swartz et al. 1985
0.71	0.3210	0.637	Southern California	COA	10-d	toxic	21% mortality	amphipod[1]	adult	Swartz et al. 1985
0.79	0.3526	0.700	Southern California	COA	1.3-h	toxic	9.4% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.86	0.3570	0.709	Southern California	COA	35-d	toxic	.002 g WW/d growth	sea urchin[3]	adult	Bay et al. 1994
0.93	0.6720	1.334	Southern California	COA	10-d	moderately toxic	35.9% mortality	amphipod[1]	adult	Swartz et al. 1991
1.00	1.8200	3.61	Southern California	COA	10-d	most toxic	78.6% mortality	amphipod[1]	adult	Swartz et al. 1991

[1] = *Rhepoxynius abronius*
[2] = *Grandidierella japonica*
[3] = *Lytechinus pictus*
[4] = *Strongylocentrotus purpuratus*

* p,p'DDD back-calculated from estimated Sum DDD values reported by MacDonald 1994.
Conversion factor (Sum DDD multiplied by 0.863) determined from data reported by Bay et al. 1994.

Table D-37. A summary of available data on biological effects associated with sediment-sorbed p,p' DDE (ppm dw @2.3%TOC), adapted from MacDonald 1994. (Summarized Data, Table A4-7). Only studies showing concordance between concentrations and effects are included.

Cum. %	Sum DDE ppm @ 1% TOC	p,p'DDE ppm,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.05	0.0024	*0.00*	San Francisco Bay	COA	48-d	moderately toxic	59.4% abnormal	bivalve	larvae	Long and Morgan 1990
0.10	0.0025	*0.01*	San Francisco Bay	COA	10-d	toxic	42.9% mortality	amphipod[1]	adult	Long and Morgan 1990
0.15	0.0038	*0.01*	San Francisco Bay	COA	10-d	highly toxic	67% mortality	amphipod[1]	adult	Long and Morgan 1990
0.20	0.6180	*1.26*	Southern California	COA	35-d	toxic	growth: .003g ww/d	sea urchin[3]	adult	Anderson et al. 1988
0.25	0.6180	*1.26*	Southern California	COA	35-d	toxic	growth. .004mm/d	sea urchin[3]	adult	Anderson et al. 1988
0.30	1.2900	*2.63*	Southern California	COA		toxic	abundance: 0.07 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.35	1.3600	*2.77*	Southern California	COA		toxic	abundance: 535 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.00	1.6800	*3.42*					ER-M; SEC			
0.40	1.6800	*3.42*	Southern California	COA		toxic	diversity: 26 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.45	1.6800	*3.42*	Southern California	COA		toxic	abundance: 1N/0.1 sq m	amphipods		Swartz et al. 1985
0.50	1.6800	*3.42*	Southern California	COA		toxic	abundance: 8.7 N/0.1 sq m	crustacean		Swartz et al. 1985
0.55	1.6900	*3.44*	Southern California	COA		moderately toxic	abundance: 23.5	amphipods		Ferraro et al. 1991
0.60	1.8200	*3.71*	Southern California	COA		toxic	abundance: 2.4 N/0.1 sq m'	echinoderms		Ferraro et al. 1991
0.65	1.8500	*3.77*	Southern California	COA		toxic	abundance: 0.2 N/0.1 sq m	echinoderms		Swartz et al. 1986
0.70	2.1000	*4.28*	Southern California	COA		toxic	infaunal index: 53.7	benthic invts.		Swartz et al. 1986
0.75	2.3600	*4.81*	Southern California	COA		toxic	diversity: 38.4 S/0.1 sq m	benthic invts.		Swartz et al. 1986
0.80	2.3600	*4.81*	Southern California	COA		toxic	abundance: 5.3 N/0.1 sq m	amphipods		Swartz et al. 1986
0.85	2.3600	*4.81*	Southern California	COA		most toxic	abundance: 4.13 N/0.1 sq m	amphipods		Ferraro et al. 1991
0.90	2.5600	*5.22*	Southern California	COA	1.3-h	toxic	9.4% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.95	3.4500	*7.03*	Southern California	COA	10-d	moderately toxic	35.9% mortality	amphipod[1]	adult	Swartz et al. 1991
1.00	14.6000	*29.75*	Southern California	COA	10-d	most toxic	78.6% mortality	amphipod[1]	adult	Swartz et al. 1991

[1] = *Rhepoxynius abronius*
[2] = *Grandidierella japonica*
[3] = *Lytechinus pictus*
[4] = *Strongylocentrotus purpuratus*

* p,p'-DDE back-calculated from estimated Sum DDE values reported by MacDonald 1994.
Conversion factor (Sum DDE multiplied by 0.886) determined from data reported by Bay et al. 1994.

Table D-38. A summary of available data on biological effects associated with sediment-sorbed p,p' DDE (ppm dw @2.3%TOC), adapted from MacDonald 1994. (Unsummarized Data, Table A4-8). Only studies showing concordance between concentrations and effects are included.

Cum. %	Sum DDE ppm @ 1% TOC	p,p'DDE ppm,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.01	0.4987	1.02	Southern California	COA		toxic	abundance: 0.2 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.03	0.5150	1.03	Southern California	COA		toxic	abundance: 0 N/0.1 sq m	echinoderm		Swartz et al. 1991
0.04	0.6248	1.24	Southern California	COA		low density	15.2 N/0.1 sq m	echinoderms		Ferraro et al. 1991
0.05	0.8465	1.69	Southern California	COA		toxic	abundance: 0.2 N/0.1 sq m	echinoderms		Swartz et al. 1986
0.06	1.0600	2.11	Southern California	COA		toxic	abundance: 661 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.08	1.0600	2.11	Southern California	COA		toxic	diversity 18.6 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.09	1.0600	2.11	Southern California	COA		toxic	abundance: 0 N/0.1 sq m	amphipod		Swartz et al. 1985
0.10	1.0600	2.11	Southern California	COA		toxic	abundance: 10.8 N/0.1 sq m	crustacean		Swartz et al. 1985
0.12	1.0600	2.11	Southern California	COA		toxic	abundance: 0 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.13	1.2200	2.43	Southern California	COA	35-d	toxic	.005g WW/d growth	sea urchin[3]	adult	Anderson et al. 1988
0.14	1.2200	2.43	Southern California	COA	35-d	toxic	.008 mm/d growth	sea urchin[3]	adult	Anderson et al. 1988
0.16	1.3100	2.61	Southern California	COA		toxic	abundance: 0.4 N/0.1 sq m	echinoderms		Swartz et al. 1986
0.17	1.3100	2.61	Southern California	COA		toxic	infaunal index; 50.6	benthic invts.		Swartz et al. 1986
0.18	1.3500	2.69	Southern California	COA	10-d	moderately toxic	22.5% mortality	amphipod[1]	adult	Swartz et al. 1991
0.19	1.4500	2.89	Southern California	COA		moderate density	abundance: 23.2 N/0.1 sq m	amphipod		Ferraro et al. 1991
0.21	1.4500	2.89	Southern California	COA		low density	abundance: 0.2 N/0.1 sq m	echinoderms		Ferraro et al. 1991
0.22	1.5400	3.07	Southern California	COA		toxic	abundance: 372 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.23	1.5400	3.07	Southern California	COA		toxic	diversity 15.8 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.25	1.5400	3.07	Southern California	COA		toxic	abundance: 0 N/0.1 sq m	amphipod		Swartz et al. 1985
0.26	1.5400	3.07	Southern California	COA		toxic	abundance: 1.4 N/0.1 sq m	crustacean		Swartz et al. 1985
0.27	1.5400	3.07	Southern California	COA		toxic	abundance: 0 N/0.1 sq m	echinoderm		Swartz et al. 1985
	1.6800	3.35					SEC			
0.29	1.7000	3.39	Southern California	COA		toxic	abundance: 39.3 N/0.1 sq m	benthic invts.		Swartz et al. 1986
0.30	1.7000	3.39	Southern California	COA		toxic	abundance: 4.3 N/0.1 sq m	amphipods		Swartz et al. 1986
0.31	1.7000	3.39	Southern California	COA		toxic	abundance: 0.2 N/0.1 sq m	echinoderms		Swartz et al. 1986
0.32	1.7000	3.39	Southern California	COA		toxic	infaunal index; 58.6	benthic invts.		Swartz et al. 1986
0.34	1.8000	3.59	Southern California	COA		moderate density	29.6 N/0.1 sq m	amphipods		Ferraro et al. 1991
0.35	1.8000	3.59	Southern California	COA		low density	0.8 N/0.1 sq m	echinoderms		Ferraro et al. 1991
0.36	1.8100	3.61	Southern California	COA		toxic	infaunal index; 18.4	benthic invts.		Swartz et al. 1985
0.38	1.8100	3.61	Southern California	COA		toxic	biomass: 9.8g/0.1 sq m	benthic invts.		Swartz et al. 1985
0.39	1.8100	3.61	Southern California	COA	10-d	toxic	84% mortality	amphipod[1]	adult	Swartz et al. 1985
0.40	1.8100	3.61	Southern California	COA		toxic	abundance: 307 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.42	1.8100	3.61	Southern California	COA		toxic	diversity: 28.2 S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.43	1.8100	3.61	Southern California	COA		toxic	abundance: 2.4 N/0.1 sq m'	amphipod		Swartz et al. 1985
0.44	1.8100	3.61	Southern California	COA		toxic	abundance: 15.6 N/0.1 sq m	crustacean		Swartz et al. 1985
0.45	1.8100	3.61	Southern California	COA		toxic	abundance: 0.2 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.47	1.8200	3.63	Southern California	COA		moderate density	17.8 N/0.1 sq m	amphipods		Ferraro et al. 1991

* p,p'-DDE back-calculated from estimated Sum DDE values reported by MacDonald 1994.
Conversion factor (Sum DDE multiplied by 0.886) determined from data reported by Bay et al. 1994.

Table D-38. A summary of available data on biological effects associated with sediment-sorbed p,p' DDE (ppm dw @2.3%TOC), adapted from MacDonald 1994. (Unsummarized Data, Table A4-8). Only studies showing concordance between concentrations and effects are included.

Cum. %	Sum DDE ppm @ 1% TOC	p,p'DDE ppm,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.48	1.8200	3.63	Southern California	COA		low density	0 N/0.1 sq m	echinoderms		Ferraro et al. 1991
0.49	2.0700	4.12	Southern California	COA	10-d	moderately toxic	40% mortality	amphipod[1]		Swartz et al. 1991
	2.2100	4.40					ER-M			
0.51	2.2100	4.40	Southern California	COA		low density	4.2N/0.1 sq m	amphipods		Ferraro et al. 1991
0.52	2.2100	4.40	Southern California	COA		low density	0 N/0.1 sq m	echinoderms		Ferraro et al. 1991
0.53	2.2500	4.48	Southern California	COA		low density	6.6 N/0.1 sq m	amphipods		Ferraro et al. 1991
0.55	2.2500	4.48	Southern California	COA		low density	0.2 N/0.1 sq m	echinoderms		Ferraro et al. 1991
0.56	2.3300	4.64	Southern California	COA		toxic	abundance: 720 N/0.1 sq m	benthic invts.		Swartz et al. 1985
0.57	2.3300	4.64	Southern California	COA		toxic	diversity: 41.2S/0.1 sq m	benthic invts.		Swartz et al. 1985
0.58	2.3300	4.64	Southern California	COA		toxic	abundance: 1.6 N/0.1 sq m	amphipod		Swartz et al. 1985
0.60	2.3300	4.64	Southern California	COA		toxic	abundance: 7 N/0.1 sq m	crustacean		Swartz et al. 1985
0.61	2.3300	4.64	Southern California	COA		toxic	abundance: 0 N/0.1 sq m	echinoderm		Swartz et al. 1985
0.62	2.4800	4.94	Southern California	COA	10-d	moderately toxic	36.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.64	2.5400	5.06	Southern California	COA		toxic	diversity: 34.8 S/0.1 sq m	benthic invts.		Swartz et al. 1986
0.65	2.5400	5.06	Southern California	COA		toxic	abundance: 9.4 N/0.1 sq m	amphipods		Swartz et al. 1986
0.66	2.5400	5.06	Southern California	COA		toxic	abundance: 0.2 N/0.1 sq m	echinoderms		Swartz et al. 1986
0.68	2.5400	5.06	Southern California	COA		toxic	52.8; infaunal index	benthic invts.		Swartz et al. 1986
0.69	2.6200	5.22	Southern California	COA		low density	1.6 N/0.1 sq m	amphipods		Ferraro et al. 1991
0.70	2.6200	5.22	Southern California	COA		low density	0.4 N/0.1 sq m	echioderms		Ferraro et al. 1991
0.71	2.6700	5.32	Southern California	COA	13-h	toxic	0% fertilization	sea urchin[4]		Bay et al. 1994
0.73	2.8300	5.64	Southern California	COA		toxic	334 N/0.1 sq m	benthic invts.		Swartz et al. 1986
0.74	2.8300	5.64	Southern California	COA		toxic	41.2 S/0.1 sq m	benthic invts.		Swartz et al. 1986
0.75	2.8300	5.64	Southern California	COA		toxic	2.2 N/0.1 sq m	amphipods		Swartz et al. 1986
0.77	2.8300	5.64	Southern California	COA		toxic	0 N/0.1 sq m	echinoderms		Swartz et al. 1986
0.78	2.8300	5.64	Southern California	COA		toxic	52.8; infaunal index	benthic invts.		Swartz et al. 1986
0.79	2.9500	5.88	Southern California	COA	35-d	toxic	.002g WW/d growth	sea urchin[3]	adult	Bay et al. 1994
0.81	2.9500	5.88	Southern California	COA	13-h	toxic	1% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.82	3.2100	6.39	Southern California	COA	10-d	moderately toxic	31.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.83	3.8600	7.69	Southern California	COA	35-d	toxic	.002g WW/d growth	sea urchin[3]	adult	Bay et al. 1994
0.84	3.8600	7.69	Southern California	COA	13-h	toxic	1% fertilization	sea urchin[4]	gamete	Bay et al. 1994
0.86	4.7300	9.42	Southern California	COA	10-d	moderately toxic	37.5% fertilization	amphipod[1]	adult	Swartz et al. 1991
0.87	5.5700	11.09	Southern California	COA	10-d	moderately toxic	43.8% fertilization	amphipod[1]	adult	Swartz et al. 1991
0.88	7.5500	15.04	Southern California	COA	10-d	moderately toxic	47.5% fertilization	amphipod[1]	adult	Swartz et al. 1991
0.90	10.5000	20.91	Southern California	COA	10-d	most toxic	78.8% mortality	amphipod[1]	adult	Swartz et al. 1991
0.91	10.8000	21.51	Southern California	COA	10-d	most toxic	81.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.92	12.1000	24.10	Southern California	COA	10-d	most toxic	76.3% mortality	amphipod[1]	adult	Swartz et al. 1991

* p,p'-DDE back-calculated from estimated Sum DDE values reported by MacDonald 1994.
Conversion factor (Sum DDE multiplied by 0.886) determined from data reported by Bay et al. 1994.

Table D-38. A summary of available data on biological effects associated with sediment-sorbed p,p' DDE (ppm dw @2.3%TOC), adapted from MacDonald 1994. (Unsummarized Data, Table A4-8). Only studies showing concordance between concentrations and effects are included.

Cum. %	Sum DDE ppm @ 1% TOC	p,p'DDE ppm,dw @2.3%TOC	Location	Type	Dur.	Result	Specifics	Invertebrate Life Form	Life Stage	Reference
0.94	14.2000	28.28	Southern California	COA	10-d	most toxic	66.3% mortality	amphipod[1]	adult	Swartz et al. 1991
0.95	15.7000	31.27	Southern California	COA	10-d	most toxic	83.8% mortality	amphipod[1]	adult	Swartz et al. 1991
0.96	15.9000	31.67	Southern California	COA	10-d	most toxic	63.8% mortality	amphipod[1]	adult	Swartz et al. 1991
0.97	15.9000	31.67	Southern California	COA	10-d	most toxic	82.5% mortality	amphipod[1]	adult	Swartz et al. 1991
0.99	17.6000	35.06	Southern California	COA	10-d	most toxic	90% mortality	amphipod[1]	adult	Swartz et al. 1991
1.00	18.3000	37.29	Southern California	COA	10-d	most toxic	85% mortality	amphipod[1]	adult	Swartz et al. 1991

[1] = *Rhepoxynius abronius*
[2] = *Grandidierella japonica*
[3] = *Lytechinus pictus*
[4] = *Strongylocentrotus purpuratus*

* p,p'-DDE back-calculated from estimated Sum DDE values reported by MacDonald 1994.
Conversion factor (Sum DDE multiplied by 0.886) determined from data reported by Bay et al. 1994.

Table D-39. A summary of available data on biological effects associated with sediment-sorbed p,p'-DDT (ppb dw @ 2.3% OC), adapted fm Tab.A4-3 in MacDonald 1994: "summarized data set". Only studies showing concordance between concentrations and effects are listed.

Cum. pct	DDT ppm @ 1% OC	p,p'-DDT ppm @ 1% OC*	DDT ppm/ gm C	*p,p'-DDT ppb @ 2.3% OC*	Location	Type	Duration	Result	species	life stage	authors
0.05	0.0074	0.0066	0.66	*15*	San Francisco Bay	COA	48-h	Moderately toxic (59.4% abnormal)	bivalve	larvae	Long & Morgan 1990
0.10	0.0084	0.0075	0.75	*17*	San Francisco Bay	COA	10-d	toxic (42.9% mortality)	amphipod[3]	adult	Long & Morgan 1990
0.15	0.0115	0.0103	1.03	*24*	Southern California	COA		toxic (abundance: 0.07 n/0.1 sq m)	echinoderms		Swartz et al. 1985
0.20	0.0136	0.0122	1.22	*28*	San Francisco Bay	COA	10-d	highly toxic (67% mortality)	amphipod[3]		Long & Morgan 1990
0.25	0.0138	0.0123	1.23	*28*	Southern California	COA		toxic (abundance: 535 n/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.30	0.0158	0.0141	1.41	*32*	Southern California	COA		toxic (8.6; infaunal index)	benthic invts.		Swartz et al. 1985
0.35	0.0158	0.0141	1.41	*32*	Southern California	COA		toxic (biomass: 9.37 g/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.40	0.0158	0.0141	1.41	*32*	Southern California	COA	10-d	toxic (21% mortality)	amphipod[3]	adult	Swartz et al. 1985
	0.017	0.0152	1.52	*35*				ER-M			
0.45	0.0172	0.0154	1.54	*35*	Southern California	COA		toxic (diversity: 26 s/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.50	0.0172	0.0154	1.54	*35*	Southern California	COA		toxic (abundance: 1 n/0.1 sq m)	amphipods		Swartz et al. 1985
0.55	0.0172	0.0154	1.54	*35*	Southern California	COA		toxic (abundance: 8.7 n/0.1 sq m)	crustaceans		Swartz et al. 1985
0.60	0.0454	0.0406	4.06	*93*	Southern California	COA	35-d	toxic (.003g WW/d growth rate)	sea urchin[1]	adult	Anderson et al. 1988
0.65	0.0454	0.0406	4.06	*93*	Southern California	COA	35-d	toxic (.004 mm /d growth)	sea urchin[1]	adult	Anderson et al. 1988
	0.111	0.0992	9.92	*228*				Sediment Effect Concentration			
0.70	0.111	0.0992	9.92	*228*	laboratory	SSBA	4-d	LC50	shrimp[4]	adult	1980
0.75	0.222	0.1985	19.85	*456*	laboratory	SSBA	10-d	toxic (>20% mortality; CHs)	amphipod[3]	adult	Plesha et al. 1988
0.80	0.24	0.2146	21.46	*493*	Southern California	COA	35-d	toxic (.002 g WW/d growth)	sea urchin[1]	adult	Bay et al. 1994
0.85	0.244	0.2181	21.81	*502*	Southern California	COA	1.3-h	toxic (9.4% fertilization)	sea urchin[5]	gamete	Bay et al. 1994
0.90	0.4748	0.4245	42.45	*976*	Southern California	COA	10-d	Moderately toxic (35.9% mortality)	amphipod[3]	adult	Swartz et al. 1985
0.95	0.7992	0.7145	71.45	*1,643*	Southern California	COA	10-d	most toxic (78.6% mortality)	amphipod[3]	adult	Swartz et al. 1985
1.00	1.11	0.9923	99.23	*2,282*	laboratory	SSBA	10-d	toxic (>80% mortality; CHs)	amphipod[3]	adult	Plesha et al. 1988

[1] = *Lytechinus pictus*
[2] = *Grandidierella japonica*
[3] = *Rhepoxynius abronius*
[4] = *Crangon septemspinosa*
[5] = *Strongylocentrotus purpuratus*

* p,p'-DDT back-calculated from estimated Sum DDT values reported by MacDonald 1994.
Conversion factor (Sum DDT multiplied by 0.894) determined from data reported by Bay et al. 1994.

Table D-40. A summary of data on biological effects associated with sediment-sorbed p,p'-DDT (ppb dw @ 2.3% OC), adapted fm Tab.A4-4 in MacDonald 1994: "unsummarized data set". Only studies showing concordance between concentrations and effects are listed.

Cum. pct	DDT ppm @ 1% OC	p,p'-DDT ppm @ 1% OC*	DDT ppm/ gm C	*p,p'-DDT ppb @ 2.3% OC*	Location	Type	Duration	Result	species	life stage	authors
0.02	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (18.4; infaunal index)	benthic invts.		Swartz et al. 1985
0.04	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (biomass: 9.8g/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.07	0.0193	0.0173	1.73	*40*	Southern California	COA	10-d	toxic (84% mortality)	amphipod	adult	Swartz et al. 1985
0.09	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (abundance: 307 n/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.11	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (diversity: 28.2 s/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.13	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (abundance: 2.4 n/0.1 sq m)	amphipod		Swartz et al. 1985
0.15	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (abundance: 15.6 n/0.1 sq m)	crustaceans		Swartz et al. 1985
0.17	0.0193	0.0173	1.73	*40*	Southern California	COA		toxic (abundance: 0.2 n/0.1 sq m)	echinoderm		Swartz et al. 1985
0.20	0.0218	0.0195	1.95	*45*	Southern California	COA		toxic (abundance: 720 n/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.22	0.0218	0.0195	1.95	*45*	Southern California	COA		toxic (diversity: 41.2 s/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.24	0.0218	0.0195	1.95	*45*	Southern California	COA		toxic (abundance: 1.6 n/0.1 sq m)	amphipod		Swartz et al. 1985
0.26	0.0218	0.0195	1.95	*45*	Southern California	COA		toxic (abundance: 7 n/0.1 sq m)	crustaceans		Swartz et al. 1985
0.28	0.0218	0.0195	1.95	*45*	Southern California	COA		toxic (abundance: 0 n/0.1 sq m)	echinoderm		Swartz et al. 1985
0.30	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (4.6: infaunal index)	benthic invts.		Swartz et al. 1985
0.33	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (biomass: 6.4 g/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.35	0.0278	0.0249	2.49	*57*	Southern California	COA	10-d	toxic (84.6% mortality)	amphipod	adult	Swartz et al. 1985
0.37	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (abundance: 372 n/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.39	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (diversity: 15.8 s/0.1 sq m)	benthic invts.		Swartz et al. 1985
0.41	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (abundance: 0 n/0.1 sq m)	amphipod		Swartz et al. 1985
0.43	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (abundance: 1.4 n/0.1 sq m)	crustaceans		Swartz et al. 1985
0.46	0.0278	0.0249	2.49	*57*	Southern California	COA		toxic (abundance: 0 n/0.1 sq m)	echinoderm		Swartz et al. 1985
0.48	0.0631	0.0564	5.64	*130*	Southern California	COA	1.3 h	toxic (7% fertilization)	sea urchin	gamete	Bay et al. 1994
0.50	0.0729	0.0652	6.52	*150*	Southern California	COA	1.3 h	toxic (38% fertilization)	sea urchin	gamete	Bay et al. 1994
	0.09	0.0805	8.05	*185*				ER-M			
0.52	0.0903	0.0807	8.07	*186*	Southern California	COA	35-d	toxic (.005 g WW/d growth)	sea urchin	adult	Anderson et al. 1988
0.54	0.0903	0.0807	8.07	*186*	Southern California	COA	35-d	toxic (.008 mm /d growth)	sea urchin	adult	Anderson et al. 1988
	0.111	0.0992	9.92	*228*				Sediment Effect Concentration			
0.57	0.111	0.0992	9.92	*228*	laboratory	SSBA	4-d	LC50	shrimp	adult	1980
0.59	0.1488	0.1330	13.30	*306*	Southern California	COA	10-d	Most Toxic (81.3% mortality)	amphipod	adult	Swartz et al. 1991
0.61	0.1614	0.1443	14.43	*332*	Southern California	COA	1.3 h	toxic (0% fertilization)	sea urchin	adult	Bay et al. 1994
0.63	0.222	0.1985	19.85	*456*	Laboratory	SSBA	10-d	toxic (>20% mortality; w/ CHCs)	amphipod	adult	Plesha et al. 1988
0.65	0.2863	0.2560	25.60	*589*	Southern California	COA	10-d	moderately toxic (22.5% mortality)	amphipod	adult	Swartz et al. 1991
0.67	0.3207	0.2867	28.67	*659*	Southern California	COA	10-d	Most Toxic (63.8% mortality)	amphipod	adult	Swartz et al. 1991
0.70	0.3245	0.2901	29.01	*667*	Southern California	COA	10-d	moderately toxic (37.5% mortality)	amphipod	adult	Swartz et al. 1991
0.72	0.3324	0.2972	29.72	*683*	Southern California	COA	10-d	moderately toxic (31.3% mortality)	amphipod	adult	Swartz et al. 1991
0.74	0.5462	0.4883	48.83	*1,123*	Southern California	COA	10-d	moderately toxic (28.8% mortality)	amphipod	adult	Swartz et al. 1991
0.76	0.5749	0.5140	51.40	*1,182*	Southern California	COA	10-d	Most Toxic (83.8% mortality)	amphipod	adult	Swartz et al. 1991

* p,p'-DDT back-calculated from estimated Sum DDT values reported by MacDonald 1994.
Conversion factor (Sum DDT multiplied by 0.894) determined from data reported by Bay et al. 1994.

Table D-40. A summary of data on biological effects associated with sediment-sorbed p,p'-DDT (ppb dw @ 2.3% OC), adapted fm Tab.A4-4 in MacDonald 1994: "unsummarized data set". Only studies showing concordance between concentrations and effects are listed.

Cum. pct	DDT ppm @ 1% OC	p,p'-DDT ppm @ 1% OC*	DDT ppm/ gm C	*p,p'-DDT ppb @ 2.3% OC*	Location	Type	Duration	Result	species	life stage	authors
0.78	0.682	0.6097	60.97	*1,402*	Southern California	COA	10-d	moderately toxic (36.3% mortality)	amphipod	adult	Swartz et al. 1991
0.80	0.8131	0.7269	72.69	*1,672*	Southern California	COA	10-d	Most Toxic (85% mortality)	amphipod	adult	Swartz et al. 1991
0.83	0.88	0.7867	78.67	*1,809*	Southern California	COA	35-d	toxic (.002 g WW/d growth)	sea urchin	adult	Bay et al. 1994
0.85	0.8813	0.7879	78.79	*1,812*	Southern California	COA	1.3 h	toxic (1% fertilization)	sea urchin	adult	Bay et al. 1994
0.87	0.8822	0.7887	78.87	*1,814*	Southern California	COA	10-d	Most Toxic (78.8% mortality)	amphipod	adult	Swartz et al. 1991
0.89	0.9187	0.8213	82.13	*1,889*	Southern California	COA	10-d	Most Toxic (82.5% mortality)	amphipod	adult	Swartz et al. 1991
0.91	0.9784	0.8747	87.47	*2,012*	Southern California	COA	10-d	Most Toxic (90% mortality)	amphipod	adult	Swartz et al. 1991
0.93	1.03	0.9208	92.08	*2,118*	Southern California	COA	10-d	Most Toxic (66.3% mortality)	amphipod	adult	Swartz et al. 1991
0.96	1.11	0.9923	99.23	*2,282*	Laboratory	SSBA	10-d	toxic (>80% mortality; w/ CHCs)	amphipod	adult	Plesha et al. 1988
0.98	1.47	1.3142	131.42	*3,023*	Southern California	COA	10-d	moderately toxic (47.5% mortality)	amphipod	adult	Swartz et al. 1991
1.00	1.52	1.3589	135.89	*3,125*	Southern California	COA	10-d	Most Toxic (76.3% mortality)	amphipod	adult	Swartz et al. 1991

* p,p'-DDT back-calculated from estimated Sum DDT values reported by MacDonald 1994.
Conversion factor (Sum DDT multiplied by 0.894) determined from data reported by Bay et al. 1994.