

WV20354

**PORT KEMBLA COAL TERMINAL**  
**Environmental Report**

**May 2012**



**CLIENT** : PORT KEMBLA COAL TERMINAL

**REPORT ON** : Sampling & Analysis of  
Water & Dust Samples

**DATE COLLECTED** : 21 May 2012

**REPORTED TO** : Mr Alex Chalk  
  
Port Kembla Coal Terminal  
PO Box 823  
Wollongong East NSW 2520

**SAMPLED BY** : SGS Wollongong  
SGS AUSTRALIA PTY LIMITED

**REFERENCE No.** : WV20354

**REPORT STATUS** : Final  
NATA Registration: 1397 (SGS Wollongong)  
NATA Registration: 2562 ( SGS Alexandria )

**REPORT DATED** : 04 June 2012

# INDEX

## Report No

### Dust Analysis

- 1** Water Quality - Monthly Inspection
- 2** Overflow
- 3** Settlement Lagoon, Northern Breakwall
- 4** North and Central Ponds
- 5** South and Workshop Ponds
- 6** Settlement Lagoon Heavy Metals

## Attachment

- A** Map of Port Kembla Coal Terminal layout of facility and location of dust gauges



## STANDARD METHODS OF ANALYSIS

<b>Total Suspended Solids</b>	-	Standard Methods for the Examination of Water and Wastewater, 19th Edition 2540AD
<b>Oil and Grease</b>	-	Standard Methods for the Examination of Water and Wastewater, 19th Edition 5520AD Chloroform Modification
<b>pH</b>	-	Standard Methods for the Examination of Water and Wastewater, 19th Edition 4500-H+
<b>Airborne Dust Deposition</b>	-	Australian Standard 3580.10.1-1991
<b>Sampling</b>	-	Samples are spot samples taken by SGS

This is to certify that the analysis carried out and displayed in this booklet are in accordance with the Standard Methods listed above:

---

Graham Allen  
Business Manager

**AIRBORNE DUST DEPOSITION DETAILS**

MONTH DATE Sampler	Analysis g/m <sup>2</sup> month	2012											
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
		20-1-12	22-2-12	23-3-12	23-4-12	21-5-12							
		JH	MR	JH	JH	MH							
P1 25m South No.1 Coalberth	Insoluble Solids Ash Combustible Matter	9.8 5.3 4.5	5.2 3.1 2.1	2.3 1.1 1.2	4.5 2.2 2.3	5.6 4.0 1.6							
P2 40m South of Southern S/P Area	Insoluble Solids Ash Combustible Matter	7.0 4.1 2.9	3.4 1.9 1.5	1.3 0.5 0.8	4.7 2.4 2.3	5.2 3.6 1.6							
P3 40m East of Southern S/P Area	Insoluble Solids Ash Combustible Matter	7.1 2.8 4.3	7.6 5.8 1.8	4.0 2.7 1.3	7.2 4.9 2.3	23.7 14.1 9.6							
P4 40m East No.2 Coalberth S/P Area	Insoluble Solids Ash Combustible Matter	11.2 3.1 8.1	5.1 2.1 3.0	3.9 1.4 2.5	6.3 2.1 4.2	BM BM BM							
P5 Northern Settling Pond	Insoluble Solids Ash Combustible Matter	11.3 3.0 8.3	4.1 1.7 2.4	6.8 4.5 2.3	7.2 2.5 4.7	4.8 2.1 2.7							
P6 40m West No.2 Coalberth S/P Area	Insoluble Solids Ash Combustible Matter	13.5 3.0 10.5	BB BB BB	5.7 2.2 3.5	7.6 2.5 5.1	5.0 2.8 2.2							
P7 260m West No.2 Coalberth S/P Area	Insoluble Solids Ash Combustible Matter	2.9 1.3 1.6	4.4 3.2 1.2	2.6 1.6 1.0	5.9 4.7 1.2	120.5 114.6 5.9							
P8 PKCT. North Truckwash	Insoluble Solids Ash Combustible Matter	17.7 3.7 14.0	3.9 1.7 2.2	5.6 2.7 2.9	10.8 3.2 7.6	15.6 4.8 10.8							
P9 East Side of Water Board Property	Insoluble Solids Ash Combustible Matter	2.0 0.7 1.3	2.6 1.6 1.0	1.6 0.9 0.7	2.4 1.1 1.3	4.0 2.4 1.6							
P10 173 Corrimal St Wollongong	Insoluble Solids Ash Combustible Matter	IN IN IN	IN IN IN	IN IN IN	IN IN IN	IN IN IN							
P11 Vikings Oval Wollongong	Insoluble Solids Ash Combustible Matter	0.9 0.2 0.7	2.1 1.0 1.1	0.4 0.3 0.1	1.1 0.4 0.7	2.3 1.4 0.9							
P12 157 Church St Wollongong	Insoluble Solids Ash Combustible Matter	1.2 0.5 0.7	1.1 0.6 0.5	0.3 0.1 0.2	1.1 0.6 0.5	1.9 1.2 0.7							
P13 200m North of A.I.S. RO.RO Berth	Insoluble Solids Ash Combustible Matter	2.6 1.7 0.9	4.1 3.0 1.1	1.2 0.9 0.3	3.5 2.4 1.1	3.1 2.2 0.9							
P14 Ross Street Wollongong	Insoluble Solids Ash Combustible Matter	1.8 0.8 1.0	1.7 0.9 0.8	0.2 0.0 0.2	1.6 0.6 1.0	1.9 1.1 0.8							
P15 North of PKCT Canteen Building	Insoluble Solids Ash Combustible Matter	17.2 4.3 12.9	8.5 3.1 5.4	9.6 4.4 5.2	8.9 2.2 6.7	15.3 6.4 8.9							

FM- Funnel Missing  
GCA-Gauge Contaminated with Algae

G/M-Gauge Missing  
B/C-Broken Crucible

O/F-Gauge Overflowed  
In- Inaccessible

E/B-Empty Bottle  
B/F-Broken Funnel

G/R-Gauge Removed  
G/C - Gauge Contaminated

B/F-Blocked  
B/B-Broken I

\* gauges overflowed

P- Petrographics

Samplers	
JH	Justin Hughes
BA	Ben Arnold
DW	Darryl Wilson
MH	Micheal Hoare



WATER QUALITY: SAMPLES FROM MONTHLY INSPECTION

		2011											
MONTH		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DATE		9-1-12	8-2-12	14-3-12	12-4-12	21-5-12							
Sampler		MH	JH	JH	MH	MH							
Report No.		SE104536R0	SE105257R0	SE106473R0	SE107192R0	SE108505R0							
E.P.A Licence													
TRUCK WASH NORTH	(TSS)mg/L	50	22	<5	20	33	190						
	(O+G)mg/L	<10	<5	<5	<5	<5	<5						
	(pH)	6.5-8.5	7.0	7.8	7.7	8.2	7.6						
	TEMP	C	21.4	20.3	21.5	17.8	18.0						
	ALGAE	CELLS/MI	NAD	NAD	NAD	NAD	41						
TRUCK WASH SOUTH	(TSS)mg/L	50	<5	<5	<5	<5	<5						
	(O+G)mg/L	<10	<5	<5	<5	<5	<5						
	(pH)	6.5-8.5	7.0	6.9	6.9	7	7.0						
	TEMP	C	25.4	19.8	19.6	17	19.3						
	ALGAE	CELLS/MI	13	5	14	7	NAD						

N/O- Nil Overflow Observed.  
 N/A - Not Analysed  
 NAD - No Algae Detected

\*\*-Wet Weather Samples

N/R - Not Running

Samplers	
JH	Justin Hughes
MH	Micheal Hoare
BA	Ben Arnold



**SETTLEMENT LAGOON OVERFLOW**

WATER QUALITY PARAMETER	DATE Time Sampler Report No	2011	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012
		DECEMBER	JANUARY	JANUARY	JANUARY	JANUARY	JANUARY	JANUARY	JANUARY	JANUARY	FEBRUARY	FEBRUARY
		25-12-12 10.30AM BR SE104507R0	8.1/2012 7.30PM RB SE104507R0	15-1-12 6.45AM RG SE104682R0	16-1-12 10.25AM RB SE104682R0	17-1-12 7.05AM RB SE104738R0	25-1-12 15.15PM RG SE105184R0	26-1-12 06.45AM RG SE105184R0	27-1-12 06.45AM RG SE105184R0	1-2-12 08.45AM SDG SE105336R0	2-2-12 PKCT TO ADVIS SDG SE105336R0	6-2-12 15.00PM KC SE105246R0
(pH)mg/L		7.2	9.5	8.5	7.6	7.3	7.3	7.40	7.3	7.4	7.1	6.8
(TSS)mg/L		12	27	22	23	6	51	81	75	31	8	19
OIL & GREASE mg/L		7	16	5	<5	14	<5	<5	<5	I/S	I/S	<5
AMMONIA mg/L		0.17	0.60	0.94	0.21	0.20	0.03	0.01	<0.01	I/S	I/S	0.03
TOTAL NITROGEN mg/L		5.8	4.3	2.7	2.0	1.9	3.5	3.0	2.8	2.8	2.0	1.6
TKN mg/L		1.9	3.5	2.5	0.90	0.44	1.8	1.3	1.2	0.73	0.61	0.95
TON mg/L		3.9	0.80	1.7	0.72	1.7	3.47	2.99	2.99	I/S	I/S	1.57
FILTERABLE PHOSPHORUS mg/L		0.17	0.004	0.22	0.11	0.12	0.096	0.056	0.052	0.098	0.063	0.041
TOTAL PHOSPHORUS mg/L		0.30	0.43	0.27	0.11	0.06	0.21	0.11	0.10	I/S	I/S	0.09
TOTAL ARSENIC mg/L										I/S	I/S	<0.05
TOTAL CADMIUM mg/L										I/S	I/S	<0.005
TOTAL CHROMIUM mg/L										I/S	I/S	<0.005
TOTAL COPPER mg/L										I/S	I/S	<0.01
TOTAL LEAD mg/L										I/S	I/S	<0.02
TOTAL NICKEL mg/L										I/S	I/S	<0.01
TOTAL ZINC mg/L										I/S	I/S	0.04
MERCURY mg/L										I/S	I/S	<0.0001

**Samplers**

I/S- Insufficient Sample



**SETTLEMENT LAGOON OVERFLOW**

WATER QUALITY PARAMETER	DATE Time Sampler Report No	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	
		FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	FEBRUARY	MARCH	MARCH
		6-2-12 15.00PM KC SE105336R0	10-2-12 14.00PM DP SE105336R0	PKCT TO ADVISE PKCT TO ADVISE SE105882R0	11-2-12 9.10AM AC SE105882R0	14-2-12 15.15PM RG SE105882R0	16-2-12 18.50PM RG SE105882R0	20-2-12 14.00PM RG SE105882R0	22-2-12 9.40AM RG SE105882R0	29-2-12 7.30AM SDG SE106034R0	1-3-12 8.00AM AB SE106034R0	3-3-12 7.40AM AC SE106034R0
(pH)mg/L		7.0	6.9	6.9	6.9	7.0	7.0	6.70	6.8	7.3	7.0	7.0
(TSS)mg/L		<5	380	79	300	170	68	15	7	12	13.0	10
OIL & GREASE mg/L		I/S	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
AMMONIA mg/L		I/S	0.09	<0.01	0.01	0.01	<0.01	0.03	0.11	0.19	0.01	0.02
TOTAL NITROGEN mg/L		1.7	5.2	1.3	4.2	2.2	2.1	1.5	0.87	1.4	0.99	0.63
TKN mg/L		1.1	5.0	0.44	3.80	1.40	1.2	0.47	0.87	0.63	0.630	0.310
TON mg/L		I/S	4.9	1.3	4.20	2.2	2.10	1.50	1.8	1.21	0.98	0.61
FILTERABLE PHOSPHORUS mg/L		0.036	0.031	0.074	0.057	0.083	0.083	0.068	0.078	0.043	0.016	0.027
TOTAL PHOSPHORUS mg/L		I/S	I/S	0.08	0.07	0.12	0.14	0.08	0.09	0.09	<0.05	0.05
TOTAL ARSENIC mg/L		I/S	I/S	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
TOTAL CADMIUM mg/L		I/S	I/S	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOTAL CHROMIUM mg/L		I/S	I/S	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOTAL COPPER mg/L		I/S	I/S	0.002	0.003	0.007	0.006	0.002	0.003	0.002	0.001	0.002
TOTAL LEAD mg/L		I/S	I/S	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
TOTAL NICKEL mg/L		I/S	I/S	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TOTAL ZINC mg/L		I/S	I/S	0.03	0.03	0.06	0.21	0.06	0.04	0.03	0.04	0.04
MERCURY mg/L		I/S	I/S	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Samplers





**SETTLEMENT LAGOON OVERFLOW**

WATER QUALITY PARAMETER	DATE Time Sampler Report No	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012
		MARCH	MARCH	MARCH	MARCH	MARCH	MARCH	MARCH	MARCH	MARCH	MARCH	MARCH
		5-3-12 6.45AM KG SE106034R0	6-3-12 6.45AM KG SE106126R0	7-3-12 6.30AM KG SE106126R0	8-3-12 6.30AM KG SE106474R0	11-3-12 15.00PM PKCT TO ADVISE SE106474R0	17-3-12 15.00PM SDG SE106474R0	18-3-12 13.00PM SDG SE106558R0	19-3-12 11.30AM TL SE106558R0	20-3-12 13.10PM TL SE106558R0	21-3-12 12.15PM TL SE106558R0	22-3-12 6.45AM TL SE106682R0
(pH)mg/L		7.3	7.5	7.2	7.0	7.1	7.2	8.7	7.8	7.5	7.7	7.4
(TSS)mg/L		24	<5	11	11	20	14	8	7	15	7	<5
OIL & GREASE mg/L		<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
AMMONIA mg/L		0.05	0.05	0.06	0.01	0.01	0.04	0.09	0.08	0.08	0.03	0.08
TOTAL NITROGEN mg/L		1.3	1.1	1.4	1.1	2.0	1.7	1.3	1.9	2.3	2.5	3.3
TKN mg/L		0.47	0.22	0.50	0.28	0.33	0.55	0.41	0.42	0.55	0.43	0.45
TON mg/L		1.25	1.05	1.34	0.16	0.20	0.10	0.32	0.34	0.47	0.40	0.37
FILTERABLE PHOSPHORUS mg/L		0.049	0.063	0.050	0.056	0.12	0.055	0.059	0.080	0.089	0.087	0.13
TOTAL PHOSPHORUS mg/L		0.07	0.06	0.07	0.06	0.14	0.09	0.08	0.10	0.11	0.12	0.14
TOTAL ARSENIC mg/L		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.001	<0.001	<0.001	<0.001	<0.001
TOTAL CADMIUM mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
TOTAL CHROMIUM mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001
TOTAL COPPER mg/L		0.002	0.001	0.002	<0.01	<0.01	<0.01	0.002	0.002	0.002	0.002	0.002
TOTAL LEAD mg/L		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.001	<0.001	<0.001	<0.001	<0.001
TOTAL NICKEL mg/L		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.002	0.002	0.003	0.003	0.002
TOTAL ZINC mg/L		0.02	0.02	0.03	0.02	0.02	0.03	0.017	0.016	0.017	0.032	0.014
MERCURY mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

Samplers



**SETTLEMENT LAGOON OVERFLOW**

WATER QUALITY PARAMETER	DATE Time Sampler Report No	2012	2012	2012	2012	2012	2012	2012	2012	2012			
		MARCH	MARCH	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL	APRIL		
		23-3-12 6.30AM SDG SE106682R0	24-3-12 7.30AM SDG SE106682R0	2-4-12 9.30AM KG SE106894R0	19-4-12 7.15AM PKCT TO ADVISE SE107450R0	20-4-12 6.30AM KG SE107733R0	20-4-12 6.30PM AC SE107733R0	21-4-12 6.15AM KG SE107733R0	27-4-12 16.00PM PKCT TO ADVISE SE107733R0	29-4-12 11.15AM AC SE107843			
(pH)mg/L		7.1	7.2	9.3	7.3	7.2	7.1	7.3	7.5	7.7			
(TSS)mg/L		13	8	11	12	<5	23	<5	<5	<5			
OIL & GREASE mg/L		<5	<5	<5	<5	<5	<5	<5	<5	<5			
AMMONIA mg/L		0.08	0.04	0.05	0.06	0.01	0.01	0.07	0.19	0.14			
TOTAL NITROGEN mg/L		4.4	3.4	3.6	2.7	2.1	2.4	2.7	2.7	2.4			
TKN mg/L		0.81	0.80	1.4	0.71	0.59	0.50	0.42	0.45	0.55			
TON mg/L		0.73	0.76	1.35	0.71	0.58	0.49	0.35	0.26	0.41			
FILTERABLE PHOSPHORUS mg/L		0.14	0.11	0.005	0.027	0.074	0.150	0.150	0.110	0.11			
TOTAL PHOSPHORUS mg/L		0.18	0.14	<0.05	0.06	0.08	0.11	0.14	0.12	0.11			
TOTAL ARSENIC mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
TOTAL CADMIUM mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			
TOTAL CHROMIUM mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			
TOTAL COPPER mg/L		0.002	0.003	0.004	0.003	0.002	0.001	0.002	0.002	0.002			
TOTAL LEAD mg/L		<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001			
TOTAL NICKEL mg/L		0.003	0.002	0.003	0.002	0.003	0.002	0.002	0.003	0.003			
TOTAL ZINC mg/L		0.018	0.017	0.062	0.150	0.021	0.015	0.015	0.019	0.018			
MERCURY mg/L		<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001			

Samplers



**SETTLEMENT LAGOON**

		2012	2012	2012	2012	2012							
		JANUARY	FBERUARY	MARCH	APRIL	MAY							
WATER QUALITY	DATE	9-1-12	8-2-12	14-3-12	12-4-12	9-5-12							
PARAMETER	Time	10AM	9.30AM	11.00AM	10.30AM	10.30AM							
	Sampler	JH	MH	JH	JH	MH							
	Report No	SE104536R0	SE105257R0	SE106473R0	SE107192R0	SE108056R0							
	(pH)mg/L	9.7	7.2	7.6	8.6	8.6							
	(TSS)mg/L	25	<5	26	48.0	10							
	OIL & GREASE mg/L	10	<5	<5	<5	<5							
	AMMONIA mg/L	0.11	0.07	0.08	0.06	0.10							
	TOTAL NITROGEN mg/L	3.4	2.0	1.7	4.6	4.1							
	TKN mg/L	2.7	1.3	0.62	1.7	1.5							
	TON mg/L	2.6	1.2	0.54	1.6	1.4							
	FILTERABLE PHOSPHORUS mg/L	<0.002	0.036	0.055	0.02	0.016							
	TOTAL PHOSPHORUS mg/L	0.23	0.15	0.11	0.17	0.06							
	ALGAE cells/ML	229849	0	339440	356332	179986							
	ALGAE TOXIN AND TYPE	89638	90542	92095	92942	93932							
	REPORT NUMBER												

**NORTHERN BREAKWALL**

		2012	2012	2012	2012	2012							
		JANUARY	FBERUARY	MARCH	APRIL	MAY							
WATER QUALITY	DATE	9-1-12	8-2-12	14-3-12	12-4-12	9-5-12							
PARAMETER	Time	10AM	9.30AM	11.00AM	10.30AM	10.30AM							
	Sampler	JH	MH	JH	JH	MH							
	Report No	SE104536R0	SE105257R0	SE106473R0	SE107192R0	SE108056R0							
	CHLOROPYLL A mg/L	<0.0005	0.0007	<0.0005	0.0015	<0.0005							





**SOUTH POND**

		2012	2012	2012	2012	2012						
		JANUARY	FBERUARY	MARCH	APRIL	MAY						
<b>WATER QUALITY</b>	<b>DATE</b>	9-1-12	8-2-12	14-3-12	12-4-12	9-5-12						
<b>PARAMETER</b>	<b>Time</b>	10AM	9.30AM	11.00AM	10.30AM	10.30AM						
	<b>Sampler</b>	JH	MH	JH	JH	MH						
	<b>Report No</b>	SE104536R0	SE105257R0	SE106473R0	SE107192R0	SE108056R0						
	(pH)mg/L	7.8	7.6	7.4	7.8	7.7						
	(TSS)mg/L	22	25	660	430	11						
	OIL & GREASE mg/L	29	<5	<5	<5	<5						
	AMMONIA mg/L	0.17	<0.01	0.04	0.13	0.04						
	TOTAL NITROGEN mg/L	4.4	2.0	8.0	26	4.8						
	TKN mg/L	1.0	0.65	6.9	18	0.81						
	TON mg/L	0.84	0.65	6.8	17	0.77						
	FILTERABLE PHOSPHORUS mg/L	0.28	0.14	0.084	0.77	0.19						
	TOTAL PHOSPHORUS mg/L	0.30	0.16	0.36	0.96	0.21						
	ALGAE cells/MI	962	0	0	743	1056						
	ALGAL COUNT	89638	90542	92095	92942	93932						
	REPORT NUMBER											

**WORKSHOP POND**

		2012	2012	2012	2012	2012						
		JANUARY	FBERUARY	MARCH	APRIL	MAY						
<b>WATER QUALITY</b>	<b>DATE</b>	9-1-12	8-2-12	14-3-12	12-4-12	9-5-12						
<b>PARAMETER</b>	<b>Time</b>	10AM	9.30AM	11.00AM	10.30AM	10.30AM						
	<b>Sampler</b>	JH	MH	JH	JH	MH						
	<b>Report No</b>	SE104536R0	SE105257R0									
	(pH)mg/L	NS	NS	NS	NS	NS						
	(TSS)mg/L	NS	NS	NS	NS	NS						
	OIL & GREASE mg/L	NS	NS	NS	NS	NS						
	AMMONIA mg/L	NS	NS	NS	NS	NS						
	TOTAL NITROGEN mg/L	NS	NS	NS	NS	NS						
	TKN mg/L	NS	NS	NS	NS	NS						
	TON mg/L	NS	NS	NS	NS	NS						
	FILTERABLE PHOSPHORUS mg/L	NS	NS	NS	NS	NS						
	TOTAL PHOSPHORUS mg/L	NS	NS	NS	NS	NS						
	ALGAE cells/MI	NS	NS	NS	NS	NS						

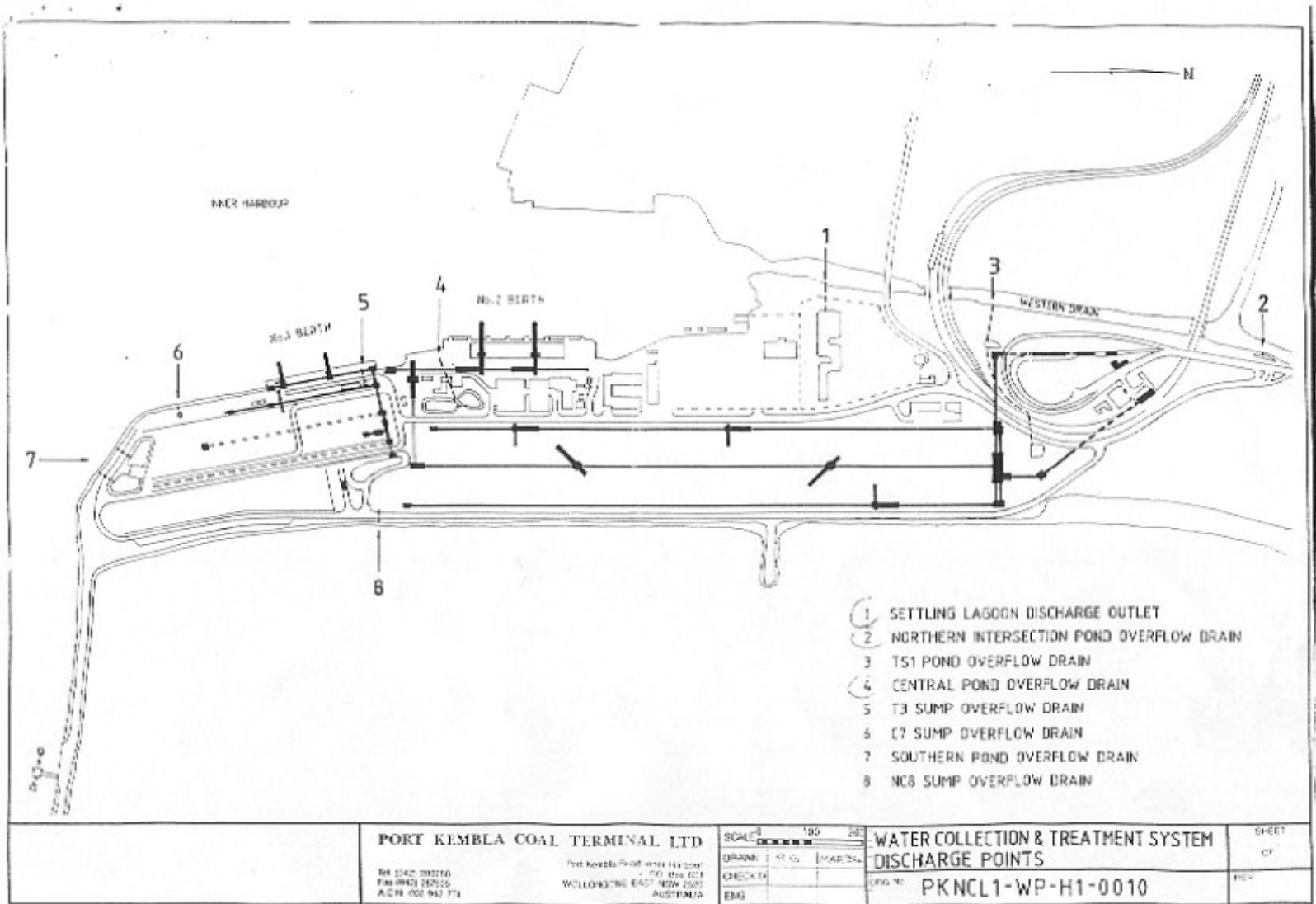
## SETTLEMENT LAGOON

		2012	2012	2012			
		JANUARY	FBERUARY	MARCH			
WATER QUALITY PARAMETER	DATE Time Sampler Report No	9-1-12 10AM JH SE104536R0	8-2-12 9.30AM MH SE105257R0	14-3-12 11.00AM JH SE106473R0			
Arsenic	mg/L	<0.05	<0.05	<0.05			
Cadmium	mg/L	<0.005	<0.005	<0.005			
Chromium	mg/L	<0.005	<0.005	<0.005			
Copper	mg/L	<0.01	<0.01	<0.01			
Lead	mg/L	<0.02	<0.02	<0.02			
Nickel	mg/L	<0.01	<0.01	<0.01			
Zinc	mg/L	0.04	0.04	0.03			
Mercury	mg/L	<0.0001	<0.0001	<0.0001			

Samplers	
JH	Justin Hughes
MH	Michael Hoare
BA	Ben Arnold



Attachment A  
Water Collection Points



**PORT KEMBLA COAL TERMINAL LTD**  
 Port Kembla Road, Wollongong NSW 2522  
 WOLLONGONG EAST NSW 2522  
 AUSTRALIA  
 Tel: 242 28216  
 Fax: 242 28226  
 A/CN: 002 942 774

SCALE: 1:100  
 DRAWN: R. G. MARSH  
 CHECKED:  
 ENG:

**WATER COLLECTION & TREATMENT SYSTEM  
DISCHARGE POINTS**  
 DESIGNED BY: PKNCL1-WP-H1-0010

SHEET  
OF  
REV



# PORT KEMBLA COAL TERMINAL DUST MONITOR LOCATIONS

18 May 201



No.	Dust Monitor Location Description
P1	25m south of Bulk Products Berth (BPB)
P2	40m south of Bulk Products Berth stockyard
P3	40m east of Bulk products Berth stockyard
P4	40m east Coal Berth stockyard
P5	Northern Pond (Pond No.1)
P6	40m west Coal Berth stockyard
P7	250m west of Coal Berth stockyard
P8	PKCT north truckwash
P9	Wollongong Sewerage Treatment Plant
P10	173 Corrimal St
P11	Vikings Oval- PKCT gauges (2); Bluescope High Volume Sampler & dust gauge
P12	157 Church Street (two gauges)
P13	Entry Gate to Bluescope Ro Ro (Berth 109)
P15	North of PKCT Planning Office
C1	Continuous Dust Monitor 1
C2	Continuous Dust Monitor 2

- Dust Gauges- DECCW EPL sites ●
- Dust Gauges- Other ●
- Continuous Dust Monitor Sites ●
- Bluescope High Volume Sampler ● P11
- PKCT Site Boundary

10



# **SGS Australia Pty Limited**

Wollongong Operational Centre  
26 Swan Street Wollongong  
New South Wales 2500, Australia  
Phone (02) 4228 4800 Fax: (02) 4227 2670