

LORIS H HASSALL TRADING PTY LTD – FORBES



ANNUAL PERFORMANCE SYSTEM REPORT 2015

EPL # 12765

REPORTING PERIOD:

12-NOV-2014 to 11-NOV-2015

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LITRES IRRIGATED

POINT 1 , 2 , 5 MONTHLY ph / Conductivity

MAP OF 5 MONITORING POINTS

EPA MONITORING FREQUENCY

POINT 1,2,5			
Pollutant	Units of measure	Frequency	Sampling Method
BOD	milligrams per litre	Quarterly	Grab Sample
Chloride	milligrams per litre	Quarterly	Grab Sample
CONDUCTIVITY	deciSiemens per metre	Monthly/Quarterly	In situ
NITROGEN (total)	milligrams per litre	Quarterly	Grab Sample
OIL AND GREASE	milligrams per litre	Quarterly	Grab Sample
p H	p H	Monthly/Quarterly	In situ
PHOSPHORUS (total)	milligrams per litre	Quarterly	Grab Sample
POTASSIUM	milligrams per litre	Quarterly	Grab Sample
SODIUM	milligrams per litre	Quarterly	Grab Sample

POINT 3			
Pollutant	Units of measure	Frequency	Sampling Method
CONDUCTIVITY	milligrams per litre	Quarterly	In situ
NITROGEN (total)	milligrams per litre	Quarterly	Grab Sample
p H	p H	Quarterly	In situ
PHOSPHORUS (total)	milligrams per litre	Quarterly	Grab Sample

POINT 4			
Pollutant	Units of measure	Frequency	Sampling Method
AVAILABLE PHOSPHORUS	milligrams per kilogram	Yearly	Speical Method 1
CONDUCTIVITY	microsiemens per centimetre	Yearly	Speical Method 1
Exchangeable sodium %	percent	Yearly	Speical Method 1
NITRATE	milligrams per litre	Yearly	Speical Method 1
NITROGEN (total)	milligrams per kilogram	Yearly	Speical Method 1
p H	p H	Yearly	Speical Method 1

POINT 1 =- IRRIGATION PIT

TURN ON AND SAMPLE IS COLLECTED AT BOTTOM OF PIT. TIP PART INTO EACH BOTTLE.
 REPEAT EVERY 1/2 HOUR UNTIL SESL BOTTLES ARE FULL

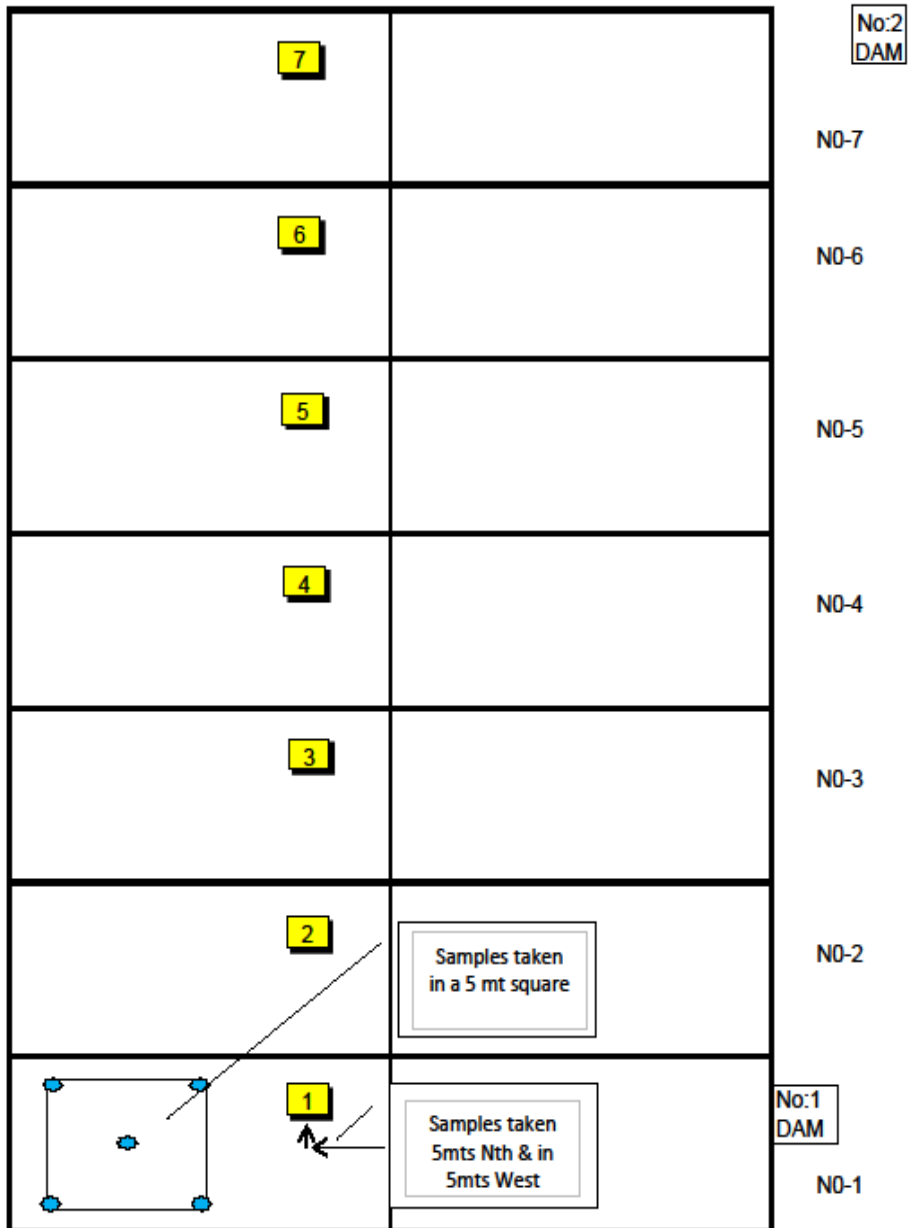
POINT 2 & 5 = EVAP DAMS.

TAKE SAMPLE FROM DEEP AS POSSIBLE , TIP PART INTO EACH BOTTLE.
 REPEAT AT HALF DEPTH AND THEN JUST BELOW SURFACE UNTIL SESL BOTTLES ARE FULL, SEAL AND LABEL

COMPOSITE SOIL POINT 4

5 SAMPLES TO BE TAKEN
 25m2 AREA x 7 BAYS AT
 DEPTHS OF 0>10 CM +
 10>40CM
 SEAL AND LABEL

SOIL SAMPLING SITES



LH HASSALL TRADING P/L 812 PARKES RD. FORBES NSW

EPA REGISTER LINK:

<https://apps.epa.nsw.gov.au/prpoeoapp>

EFFLUENT ANALYSIS RECORD SHEET

LICENCE # 12765

REVISIONS:

Refer NEW POINTS FOR TESTING SITE PLAN AUG-18

DATE: 7-12-15

PUBLISHED: 11/10/2018

APPENDIX G



POINT 1 - IRRIGATION PIT							
UNIT OF MEASURE	10/02/2015	24/04/2015	7/08/2015	27/11/2015	HIGH	LOW	AVE
BOD - mg/L	3400	2200	3000	5900	5900	2200	3625
Chloride - mg/L	3300	1600	898	214	3300	214	1503
Total Kjeldahl Nitrogen - mg/L	780	620	660	850	850	620	728
Oil & Grease (LLE) - mg/L	12	8	7	24	24	7	13
Total Phosphorus - mg/L	19	15	27	23	27	15	21
Potassium mg/L	98.3	93.5	122	155	155	93.5	117
Conductivity -deciSiemens / MT	15.1	6.64	6.3	21.4	21.4	6.3	14
Sodium - mg/L	2320	1602	1449	2733	2733	1449	2026
(Ph)	12.2	11.5	12.2	8.6	12.2	8.6	11

DATE TAKEN:
TIME TAKE:
TAKEN BY:
SESL REPORT:

10/02/2015	24/04/2015	7/08/2015	27/11/2015
8:00 AM	7.15 am	7:00 AM	7.30 AM
MARK	MARK	MARK	MARK
23/02/2015	5/05/2015	20/08/2015	7/12/2015

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EPA REGISTER LINK: <https://apps.epa.nsw.gov.au/prpoeoapp>

EVAPORATION DAM MONITORING RECORD

LICENCE # 12765

REVISION:0

Refer **NEW POINTS FOR TESTING SITE PLAN AUG-18**

DATE: 7-12-15

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APPENDIX C



POINT 2 - EVAPORATION DAM					SML LINED		
UNIT OF MEASURE	31/01/2015	24/04/2015	7/08/2015	25/11/2015	HIGH	LOW	AVE
BOD - mg/L	12000	11000	6700	7900	12000	6700	9400
Chloride - mg/L	81800	123000	51816	92399	123000	51816	87254
Total Kjeldahl Nitrogen - mg/L	930	920	830	1600	1600	830	1070
Oil & Grease (LLE) - mg/L	-5	-5	-5	10	10	-5	-1
Total Phosphorus - mg/L	260	120	140	260	260	120	195
Potassium mg/L	2137	1600	1414	2140	2140	1414	1823
Conductivity -deciSiemens / MT	542	453	165.7	599	599	453	382
Sodium - mg/L	12100	89700	72934	116648	116648	12100	72846
(Ph)	6.4	6.8	6.7	6.7	6.8	6.4	7

DATE TAKEN:
 TIME TAKE:
 TAKEN BY:
 SESL REPORT:

31/01/2015	24/04/2015	7/08/2015	25/11/2015
8.30 am	7.30 am	7.45 am	7.15 am
MARK	MARK	MARK	MARK
23/02/2015	5/05/2015	20/08/2015	7/12/2015

POINT 5 - EVAPORATION DAM					LGE LINED		
UNIT OF MEASURE	31/01/2015	24/04/2015	7/08/2015	25/11/2015	HIGH	LOW	AVE
BOD - mg/L	22000	16000	9200	8100	22000	8100	8650
Chloride - mg/L	77000	88900	42494	90678	90678	42494	66586
Total Kjeldahl Nitrogen - mg/L	1500	1800	1200	1500	1800	1200	1350
Oil & Grease (LLE) - mg/L	-5	-5	7	-5	7	-5	1
Total Phosphorus - mg/L	350	180	180	200	350	180	190
Potassium mg/L	3770	2190	1447	2143	3770	1447	1795
Conductivity -deciSiemens / MT	558	447	161.2	605	605	161.2	383.1
Sodium - mg/L	119000	63600	69900	115405	115405	63600	92652.5
(Ph)	6.5	6.9	7.4	7.1	7.4	6.5	7.25

DATE TAKEN:
 TIME TAKE:
 TAKEN BY:
 SESL REPORT:

31/01/2015	24/04/2015	7/08/2015	25/11/2015
9:00 AM	7.45 am	7.30 am	7:00 AM
MARK	MARK	MARK	MARK
23/02/2015	5/05/2015	20/08/2015	7/12/2015

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EPA REGISTER LINK:

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EFFLUENT IRRIGATED POINT 1

[LICENCE # 12765](#)



REVISION: 0

7/12/2015

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CALL LOG

RECORDS DONE DAILY BY WHO EVER
 IS IN CHARGE TO DO IRRIGATING.
 REFER IRRIGATION RECORD SHEETS
 KEPT IN OFFICE.

<i>Lts</i>	<i>No of days</i>	<i>low</i>	<i>high</i>
738089	7	79053	230341
817097	7	92552	154234
926109	7	58541	209119
565671	7	54466	130262
649136	7	32959	160254
589103	7	51351	105299
610195	7	67360	123331
555140	7	77178	102563
699046	7	85232	124955
564391	7	94388	192762
757984	7	78159	136679
727274	7	77721	145499
773992	7	99021	141446
726064	7	85906	144581
607879	7	87526	128732
840776	7	97021	161796
799790	7	98660	131719
813173	7	86706	159839
715596	7	63395	127835
579328	7	83304	127741
605820	7	76539	123002
439386	7	58073	135729
572261	7	63329	103844
612981	7	76034	109161
459125	7	38145	100198
522378	7	60680	106560
499412	7	61954	101632
549506	7	50725	94913
592944	7	56878	101778
525600	7	63503	117502
572440	7	64362	98981
650666	7	61170	126683
644151	7	69767	117319
515692	7	72551	118365
339346	5	60820	83732
Total Lts	22,157,541	243	
No. times irrigated	243		
Av. Lts	91183.3		

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EPA REGISTER LINK: <https://apps.epa.nsw.gov.au/rrr020000>

PH / COND. POINT 1,2,5 [LICENCE # 12765](#)

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2014 > 2015

EFFLUENT PIT:			EVAP DAM.			BIG EVAP DAM.			ALL BY:			
	ph	cond		ph	cond		ph	cond				
8/12/2014	9.52	13000	8AM	8/12/2014	8.5	620020	8AM	8/12/2014	10.3	369800	8AM	MARK
9/01/2015	10.63	18000	9AM	9/01/2015	7.86	380500	9AM	9/01/2015	8.36	384000	9AM	MARK
6/02/2015	8.61	12000	10AM	20/04/2015	8.95	490400	10AM	20/04/2015	8.65	360000	10AM	MARK
18/03/2015	9.65	14000	9AM	15/05/2015	10.2	510200	9AM	15/05/2015	9.25	340000	9AM	MARK
20/04/2015	9.65	20160	11AM	19/06/2015	8.9	610200	11AM	19/06/2015	7.65	323000	11AM	MARK
15/05/2015	11.95	10770	1PM	20/07/2015	9.95	380000	1PM	20/07/2015	9.21	386020	1PM	MARK
19/06/2015	9.25	13500	10AM	13/08/2015	9.8	362000	10AM	13/08/2015	8.65	396000	10AM	MARK
20/07/2015	9.85	14200	9AM	16/09/2015	10.35	390300	9AM	16/09/2015	9.31	340200	9AM	MARK
13/08/2015	10.28	12500	10AM	27/10/2015	12.07	620500	10AM	27/10/2015	9.87	382000	10AM	MARK
16/09/2015	12.3	11000	9AM	20/11/2015	10.6	370500	9AM	20/11/2015	8.63	634000	9AM	MARK
27/10/2015	10.5	13000	2PM	0/01/1900	9.8	360800	2PM	0/01/1900	9.47	346000	2PM	MARK
20/11/2015	11.92	12400	10AM	AV:	9.75	330200	10AM	AV:	9.14	348000	10AM	MARK
	124.13	166530			116.73	6823620			108.69	6829020		
AV:	10.34	13878		AV:	9.73	368802		AV:	9.06	369063		
LOW:	9.5	13000		LOW:	7.86	490400		LOW:	7.65	323000		
HIGH:	12.34	23000		HIGH:	12.07	620500		HIGH:	10.3	634000		

