

Attachment 4

ALS Analytical Laboratory Results for Contaminated Soil Removed From the Secondary Containment

ADVANCED TECHNOLOGY
LABORATORIES

December 23, 2013

Kevin Miskin
Stantec
25864-F Business Center Drive
Redlands, CA 92374
Tel: (909) 335-6116
Fax: (909) 335-6120



Re: ATL Work Order Number : 1304048
Client Reference : Ocotillo Express LLC

Enclosed are the results for sample(s) received on December 19, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.

3275 Walnut Avenue, Signal Hill, CA 90755 • Tel: 562-989-4045 • Fax: 562-989-4040
www.atlglobal.com



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC
Report To : Kevin Miskin
Reported : 12/23/2013

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMPOSITE 12-12-13-01-01/02/03	1304048-07	Soil	12/12/13 0:00	12/19/13 9:10
COMPOSITE 12-12-13-T27-02/03/04	1304048-08	Soil	12/12/13 0:00	12/19/13 9:10



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-01-01/02/03

Lab ID: 1304048-07

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Arsenic	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Barium	99	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Beryllium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Cadmium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Chromium	6.2	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Cobalt	2.7	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Copper	6.1	2.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Lead	1.1	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Molybdenum	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Nickel	7.6	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Selenium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Silver	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Thallium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Vanadium	16	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	
Zinc	29	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:14	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0418	12/20/2013	12/20/13 15:51	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	150	10	NA	1	B3L0432	12/20/2013	12/20/13 18:20	
ORO	200	10	NA	1	B3L0432	12/20/2013	12/20/13 18:20	
Surrogate: <i>p</i> -Terphenyl	80.8 %	55 - 153			B3L0432	12/20/2013	12/20/13 18:20	



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC
Report To : Kevin Miskin
Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-01-01/02/03

Lab ID: 1304048-07

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1221	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1232	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1242	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1248	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1254	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1260	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1262	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Aroclor 1268	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:15	
Sirrogate: Decachlorobiphenyl	84.6 %		16 - 152		B3L0431	12/20/2013	12/20/13 15:15	
Sirrogate: Tetrachloro-m-xylene	92.2 %		38 - 131		B3L0431	12/20/2013	12/20/13 15:15	

Volatile Organic Compounds by EPA 8260B

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,1-Dichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,1-Dichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,1-Dichloropropene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2,4-Trimethylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2-Dibromoethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2-Dichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,2-Dichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,3-Dichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
2,2-Dichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-01-01/02/03

Lab ID: 1304048-07

Volatile Organic Compounds by EPA 8260B

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
4-Chlorotoluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
4-Isopropyltoluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Benzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Bromobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Bromochloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Bromodichloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Bromoform	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Bromomethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Carbon disulfide	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Carbon tetrachloride	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Chlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Chloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Chloroform	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Chloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Di-isopropyl ether	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Dibromochloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Dibromomethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Dichlorodifluoromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Ethyl Acetate	ND	50	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Ethyl Ether	ND	50	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Ethylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Freon-113	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Hexachlorobutadiene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Isopropylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
m,p-Xylene	ND	10	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Methylene chloride	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
MTBE	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
n-Butylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
n-Propylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
Naphthalene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
o-Xylene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
sec-Butylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	
styrene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:47	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-01-01/02/03
 Lab ID: 1304048-07

Volatile Organic Compounds by EPA 8260B

Analyst: TP

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time		Notes
	(ug/kg)	(ug/kg)	(ug/kg)				Analyzed		
tert-Amyl methyl ether	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
tert-Butanol	ND	100	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
tert-Butylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Tetrachloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Toluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Trichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Trichlorofluoromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Vinyl acetate	ND	50	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Vinyl chloride	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13	10:47	
Surrogate: 1,2-Dichloroethane-d4	91.9 %		70 - 130		B3L0412	12/20/2013	12/20/13	10:47	
Surrogate: 4-Bromofluorobenzene	97.7 %		70 - 130		B3L0412	12/20/2013	12/20/13	10:47	
Surrogate: Dibromofluoromethane	93.8 %		70 - 130		B3L0412	12/20/2013	12/20/13	10:47	
Surrogate: Toluene-d8	99.7 %		70 - 130		B3L0412	12/20/2013	12/20/13	10:47	

Semivolatile Organic Compounds by EPA 8270C

Analyst: MFR

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time		Notes
	(ug/kg)	(ug/kg)	(ug/kg)				Analyzed		
1,2,4-Trichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
1,2-Dichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
1,3-Dichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
1,4-Dichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,4,5-Trichlorophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,4,6-Trichlorophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,4-Dichlorophenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,4-Dimethylphenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,4-Dinitrophenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,4-Dinitrotoluene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2,6-Dinitrotoluene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2-Chloronaphthalene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2-Chlorophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2-Methylnaphthalene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
2-Methylphenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
3-Nitroaniline	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13	18:48	
3-Nitrophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13	18:48	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-01-01/02/03

Lab ID: 1304048-07

Semivolatile Organic Compounds by EPA 8270C

Analyst: MFR

Analyte	Result	PQL	MDL	Dilution	Batch	Prepared	Date/Time	Notes
	(ug/kg)	(ug/kg)	(ug/kg)				Analyzed	
3,3'-Dichlorobenzidine	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
3-Nitroaniline	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4,6-Dinitro-2-methylphenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Bromophenyl-phenylether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Chloro-3-methylphenol	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Chloroaniline	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Chlorophenyl-phenylether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Methylphenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Nitroaniline	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
4-Nitrophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Acenaphthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Acenaphthylene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Anthracene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzidine (M)	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzo(a)anthracene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzo(a)pyrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzo(b)fluoranthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzo(g,h,i)perylene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzo(k)fluoranthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzoic acid	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Benzyl alcohol	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
bis(2-chloroethoxy)methane	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
bis(2-Chloroethyl)ether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
bis(2-chloroisopropyl)ether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
bis(2-ethylhexyl)phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Butylbenzylphthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Chrysene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Di-n-butylphthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Di-n-octylphthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Dibenz(a,h)anthracene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Dibenzofuran	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Diethyl phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Dimethyl phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Fluoranthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Fluorene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Hexachlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Hexachlorobutadiene	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 18:48	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-01-01/02/03

Lab ID: 1304048-07

Semivolatile Organic Compounds by EPA 8270C

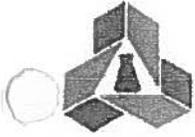
Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Hexachlorocyclopentadiene	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Hexachloroethane	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Indeno(1,2,3-cd)pyrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Isophorone	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
N-Nitroso-di-n propylamine	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
N-Nitrosodiphenylamine	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Naphthalene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Nitrobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Pentachlorophenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Phenanthrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Phenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Pyrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Pyridine	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: 1,2-Dichlorobenzene-d4	75.7 %		48 - 113		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: 2,4,6-Tribromophenol	126 %		14 - 162		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: 2-Chlorophenol-d4	76.2 %		40 - 117		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: 2-Fluorobiphenyl	84.6 %		52 - 126		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: 2-Fluorophenol	68.4 %		26 - 124		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: 4-Terphenyl-d14	82.8 %		36 - 163		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: Nitrobenzene-d5	66.9 %		42 - 118		B3L0426	12/20/2013	12/20/13 18:48	
Surrogate: Phenol-d5	69.7 %		29 - 124		B3L0426	12/20/2013	12/20/13 18:48	

pH by EPA 9045C

Analyst: LA

Analyte	Result (pH Units)	PQL (pH Units)	MDL (pH Units)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
pH	7.6	0.10	NA	1	B3L0428	12/20/2013	12/20/13 14:31	



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC
Report To : Kevin Miskin
Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-T27-02/03/04
Lab ID: 1304048-08

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Arsenic	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Barium	73	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Beryllium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Cadmium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Chromium	6.4	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Cobalt	1.7	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Copper	6.9	2.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Lead	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Molybdenum	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Nickel	7.6	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Selenium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Silver	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Thallium	ND	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Vanadium	9.9	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	
Zinc	15	1.0	NA	1	B3L0420	12/20/2013	12/20/13 16:15	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0418	12/20/2013	12/20/13 15:53	

Diesel Range Organics by EPA 8015B

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
DRO	7500	100	NA	10	B3L0432	12/20/2013	12/20/13 19:44	
ORO	6300	100	NA	10	B3L0432	12/20/2013	12/20/13 19:44	
Surrogate: <i>p</i> -Terphenyl	0%	55 - 153			B3L0432	12/20/2013	12/20/13 19:44	S4



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-T27-02/03/04

Lab ID: 1304048-08

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1221	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1232	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1242	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1248	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1254	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1260	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1262	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Aroclor 1268	ND	16	NA	1	B3L0431	12/20/2013	12/20/13 15:46	
Surrogate: Decachlorobiphenyl	73.1 %	16 - 152			B3L0431	12/20/2013	12/20/13 15:46	
Surrogate: Tetrachloro-m-xylene	69.5 %	38 - 131			B3L0431	12/20/2013	12/20/13 15:46	

Volatile Organic Compounds by EPA 8260B

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,1,1,2-Tetrachloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,1,1-Trichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,1,2,2-Tetrachloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,1,2-Trichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,1-Dichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,1-Dichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,1-Dichloropropene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2,3-Trichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2,3-Trichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2,4-Trichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2,4-Trimethylbenzene	7.6	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	E4
1,2-Dibromo-3-chloropropane	ND	10	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2-Dibromoethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2-Dichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2-Dichloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,2-Dichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,3,5-Trimethylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,3-Dichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,3-Dichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
1,4-Dichlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
2,2-Dichloropropane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC
Report To : Kevin Miskin
Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-T27-02/03/04

Lab ID: 1304048-08

Volatile Organic Compounds by EPA 8260B

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Chlorotoluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
4-Chlorotoluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
4-Isopropyltoluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Benzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Bromobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Bromochloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Bromodichloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Bromoform	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Bromomethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Carbon disulfide	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Carbon tetrachloride	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Chlorobenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Chloroethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Chloroform	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Chloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
cis-1,2-Dichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
cis-1,3-Dichloropropene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Di-isopropyl ether	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Dibromochloromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Dibromomethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Dichlorodifluoromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Ethyl Acetate	ND	50	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Ethyl Ether	ND	50	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Ethyl tert-butyl ether	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Ethylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Freon-113	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Hexachlorobutadiene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Isopropylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
m,p-Xylene	ND	10	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Methylene chloride	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
MTBE	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
n-Butylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
n-Propylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Naphthalene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
o-Xylene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
sec-Butylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
styrene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-T27-02/03/04

Lab ID: 1304048-08

Volatile Organic Compounds by EPA 8260B

Analyst: TP

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
tert-Amyl methyl ether	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
tert-Butanol	ND	100	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
tert-Butylbenzene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Tetrachloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Toluene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
trans-1,2-Dichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
trans-1,3-Dichloropropene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Trichloroethene	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Trichlorofluoromethane	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Vinyl acetate	ND	50	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
Vinyl chloride	ND	5.0	NA	1	B3L0412	12/20/2013	12/20/13 10:09	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>103 %</i>	<i>70 - 130</i>			B3L0412	12/20/2013	<i>12/20/13 10:09</i>	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>71.6 %</i>	<i>70 - 130</i>			B3L0412	12/20/2013	<i>12/20/13 10:09</i>	
<i>Surrogate: Dibromofluoromethane</i>	<i>103 %</i>	<i>70 - 130</i>			B3L0412	12/20/2013	<i>12/20/13 10:09</i>	
<i>Surrogate: Toluene-d8</i>	<i>90.7 %</i>	<i>70 - 130</i>			B3L0412	12/20/2013	<i>12/20/13 10:09</i>	

Semivolatile Organic Compounds by EPA 8270C

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1,2,4-Trichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
1,2-Dichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
1,3-Dichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
1,4-Dichlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,4,5-Trichlorophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,4,6-Trichlorophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,4-Dichlorophenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,4-Dimethylphenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,4-Dinitrophenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,4-Dinitrotoluene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2,6-Dinitrotoluene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2-Chloronaphthalene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2-Chlorophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2-Methylnaphthalene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2-Methylphenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
3-Nitroaniline	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
2-Nitrophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-T27-02/03/04

Lab ID: 1304048-08

Semivolatile Organic Compounds by EPA 8270C

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
3,3'-Dichlorobenzidine	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
3-Nitroaniline	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4,6-Dinitro-2-methylphenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Bromophenyl-phenylether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Chloro-3-methylphenol	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Chloroaniline	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Chlorophenyl-phenylether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Methylphenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Nitroaniline	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
4-Nitrophenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Acenaphthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Acenaphthylene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Anthracene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benizidine (M)	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzo(a)anthracene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzo(a)pyrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzo(b)fluoranthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzo(g,h,i)perylene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzo(k)fluoranthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzoic acid	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Benzyl alcohol	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
bis(2-chloroethoxy)methane	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
bis(2-Chloroethyl)ether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
bis(2-chloroisopropyl)ether	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
bis(2-ethylhexyl)phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Butylbenzyl phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Chrysene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Di-n-butylphthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Di-n-octylphthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Dibenz(a,h)anthracene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Dibenzofuran	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Diethyl phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Dimethyl phthalate	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Fluoranthene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Fluorene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Hexachlorobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Hexachlorobutadiene	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 19:14	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Client Sample ID COMPOSITE 12-12-13-T27-02/03/04
 Lab ID: 1304048-08

Semivolatile Organic Compounds by EPA 8270C

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Hexachlorocyclopentadiene	ND	660	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Hexachloroethane	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Indeno(1,2,3-cd)pyrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Isophorone	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
N-Nitroso-di-n propylamine	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
N-Nitrosodiphenylamine	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Naphthalene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Nitrobenzene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Pentachlorophenol	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Phenanthrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
phenol	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Pyrene	ND	330	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
Pyridine	ND	1600	NA	1	B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	79.7 %	48 - 113			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: 2,4,6-Tribromophenol</i>	139 %	14 - 162			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: 2-Chlorophenol-d4</i>	79.6 %	40 - 117			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: 2-Fluorobiphenyl</i>	81.9 %	52 - 126			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: 2-Fluorophenol</i>	72.1 %	26 - 124			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: 4-Terphenyl-d14</i>	90.6 %	36 - 163			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: Nitrobenzene-d5</i>	70.4 %	42 - 118			B3L0426	12/20/2013	12/20/13 19:14	
<i>Surrogate: Phenol-d5</i>	72.2 %	29 - 124			B3L0426	12/20/2013	12/20/13 19:14	

pH by EPA 9045C

Analyst: LA

Analyte	Result (pH Units)	PQL (pH Units)	MDL (pH Units)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
pH	8.8	0.10	NA	1	B3L0428	12/20/2013	12/20/13 14:31	



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC
Report To : Kevin Miskin
Reported : 12/23/2013

QUALITY CONTROL SECTION

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B3L0420 - EPA 3050B

Blank (B3L0420-BLK1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

Antimony	ND	2.0			NR				
Arsenic	ND	1.0			NR				
Barium	ND	1.0			NR				
Beryllium	ND	1.0			NR				
Cadmium	ND	1.0			NR				
Chromium	ND	1.0			NR				
Cobalt	ND	1.0			NR				
Copper	ND	2.0			NR				
Lead	ND	1.0			NR				
Molybdenum	ND	1.0			NR				
Nickel	ND	1.0			NR				
Selenium	ND	1.0			NR				
Silver	ND	1.0			NR				
Thallium	ND	1.0			NR				
Vanadium	ND	1.0			NR				
Zinc	ND	1.0			NR				

LCS (B3L0420-BS1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

Antimony	45.0600	2.0	50.0000	90.1	80 - 120
Arsenic	45.4939	1.0	50.0000	91.0	80 - 120
Barium	45.9815	1.0	50.0000	92.0	80 - 120
Beryllium	47.0872	1.0	50.0000	94.2	80 - 120
Cadmium	47.0440	1.0	50.0000	94.1	80 - 120
Chromium	47.8946	1.0	50.0000	95.8	80 - 120
Cobalt	46.9348	1.0	50.0000	93.9	80 - 120
Copper	48.4671	2.0	50.0000	96.9	80 - 120
Lead	46.0184	1.0	50.0000	92.0	80 - 120
Molybdenum	49.3518	1.0	50.0000	98.7	80 - 120
Nickel	45.7680	1.0	50.0000	91.5	80 - 120
Selenium	42.3601	1.0	50.0000	84.7	80 - 120
Silver	45.2719	1.0	50.0000	90.5	80 - 120
Thallium	46.2204	1.0	50.0000	92.4	80 - 120
Vanadium	46.5220	1.0	50.0000	93.0	80 - 120
Zinc	49.0046	1.0	50.0000	98.0	80 - 120

Duplicate (B3L0420-DUP1)

Source: 1303990-01

Prepared: 12/20/2013 Analyzed: 12/20/2013

Antimony	ND	2.0	ND	NR	20
Arsenic	2.65578	1.0	2.28458	NR	15.0 20
Barium	20.1712	1.0	18.2353	NR	10.1 20
Beryllium	0.229814	1.0	0.227009	NR	1.23 20



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B3L0420 - EPA 3050B (continued)

Duplicate (B3L0420-DUP1) - Continued

Source: 1303990-01

Prepared: 12/20/2013 Analyzed: 12/20/2013

Cadmium	0.094452	1.0		0.095639	NR		1.25	20	
Chromium	7.76446	1.0		7.87979	NR		1.47	20	
Cobalt	2.04410	1.0		2.03988	NR		0.207	20	
Copper	8.33408	2.0		8.12782	NR		2.51	20	
Lead	3.88762	1.0		3.69718	NR		5.02	20	
Molybdenum	0.553032	1.0		0.524322	NR		5.33	20	
Nickel	7.05679	1.0		7.24669	NR		2.66	20	
Selenium	ND	1.0		ND	NR			20	
Silver	0.108459	1.0		0.127203	NR		15.9	20	
Thallium	ND	1.0		ND	NR			20	
Vanadium	14.2377	1.0		13.8623	NR		2.67	20	
Zinc	30.0414	1.0		29.3199	NR		2.43	20	

Matrix Spike (B3L0420-MS1)

Source: 1303990-01

Prepared: 12/20/2013 Analyzed: 12/20/2013

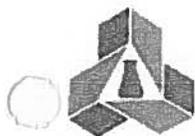
Antimony	99.0259	2.0	125.000	ND	79.2	21 - 109			
Arsenic	107.941	1.0	125.000	2.28458	84.5	55 - 102			
Barium	125.090	1.0	125.000	18.2353	85.5	40 - 130			
Beryllium	110.013	1.0	125.000	0.227009	87.8	60 - 104			
Cadmium	105.443	1.0	125.000	0.095639	84.3	52 - 100			
Chromium	118.178	1.0	125.000	7.87979	88.2	53 - 113			
Cobalt	108.277	1.0	125.000	2.03988	85.0	53 - 104			
Copper	120.663	2.0	125.000	8.12782	90.0	51 - 122			
Lead	108.480	1.0	125.000	3.69718	83.8	51 - 106			
Molybdenum	113.603	1.0	125.000	0.524322	90.5	55 - 103			
Nickel	110.759	1.0	125.000	7.24669	82.8	48 - 112			
Selenium	102.631	1.0	125.000	ND	82.1	53 - 104			
Silver	108.567	1.0	125.000	0.127203	86.8	61 - 109			
Thallium	103.475	1.0	125.000	ND	82.8	44 - 103			
Vanadium	119.984	1.0	125.000	13.8623	84.9	55 - 115			
Zinc	132.366	1.0	125.000	29.3199	82.4	24 - 130			

Matrix Spike Dup (B3L0420-MSD1)

Source: 1303990-01

Prepared: 12/20/2013 Analyzed: 12/20/2013

Antimony	98.5316	2.0	125.000	ND	78.8	21 - 109	0.500	20	
Arsenic	106.998	1.0	125.000	2.28458	83.8	55 - 102	0.877	20	
Barium	126.761	1.0	125.000	18.2353	86.8	40 - 130	1.33	20	
Beryllium	110.409	1.0	125.000	0.227009	88.1	60 - 104	0.360	20	
Cadmium	106.794	1.0	125.000	0.095639	85.4	52 - 100	1.27	20	
Chromium	118.061	1.0	125.000	7.87979	88.1	53 - 113	0.0994	20	
Cobalt	108.851	1.0	125.000	2.03988	85.4	53 - 104	0.529	20	
Copper	121.519	2.0	125.000	8.12782	90.7	51 - 122	0.706	20	
Lead	108.004	1.0	125.000	3.69718	83.4	51 - 106	0.440	20	
Molybdenum	112.704	1.0	125.000	0.524322	89.7	55 - 103	0.794	20	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0420 - EPA 3050B (continued)

Matrix Spike Dup (B3L0420-MSD1) - Continued

Source: 1303990-01

Prepared: 12/20/2013 Analyzed: 12/20/2013

Nickel	111.786	1.0	125.000	7.24669	83.6	48 - 112	0.923	20	
Selenium	101.749	1.0	125.000	ND	81.4	53 - 104	0.863	20	
Silver	109.332	1.0	125.000	0.127203	87.4	61 - 109	0.702	20	
Thallium	102.717	1.0	125.000	ND	82.2	44 - 103	0.736	20	
Vanadium	119.691	1.0	125.000	13.8623	84.7	55 - 115	0.244	20	
Zinc	135.726	1.0	125.000	29.3199	85.1	24 - 130	2.51	20	



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B3L0418 - EPA 7471									
Blank (B3L0418-BLK1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
Mercury	ND	0.10			NR				
LCS (B3L0418-BS1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
Mercury	0.807362	0.10	0.833333		96.9	80 - 120			
Duplicate (B3L0418-DUP1)		Source: 1303990-01			Prepared: 12/20/2013 Analyzed: 12/20/2013				
Mercury	0.026354	0.10		0.030086	NR		13.2	20	
Matrix Spike (B3L0418-MS1)		Source: 1303990-01			Prepared: 12/20/2013 Analyzed: 12/20/2013				
Mercury	0.849597	0.10	0.833333	0.030086	98.3	70 - 130			
Matrix Spike Dup (B3L0418-MSD1)		Source: 1303990-01			Prepared: 12/20/2013 Analyzed: 12/20/2013				
Mercury	0.847668	0.10	0.833333	0.030086	98.1	70 - 130	0.227	20	
Post Spike (B3L0418-PS1)		Source: 1303990-01			Prepared: 12/20/2013 Analyzed: 12/20/2013				
Mercury	0.005369		5.00000E-3	0.000361	100	85 - 115			



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Diesel Range Organics by EPA 8015B - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B3L0432 - GCSEMI_DRO									
Blank (B3L0432-BLK1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
DRO	ND	10			NR				
ORO	ND	10			NR				
<i>Surrogate: p-Terphenyl</i>	66.73		80.0000		83.4	55 - 153			
LCS (B3L0432-BS1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
DRO	951.890	10	1000.00		95.2	65 - 151			
<i>Surrogate: p-Terphenyl</i>	66.98		80.0000		83.7	55 - 153			
Matrix Spike (B3L0432-MS1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
				Source: 1304048-07					
RO	1006.93	10	1000.00	151.420	85.6	45 - 168			
<i>Surrogate: p-Terphenyl</i>	66.53		80.0000		83.2	55 - 153			
Matrix Spike Dup (B3L0432-MSD1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
				Source: 1304048-07					
DRO	1038.51	10	1000.00	151.420	88.7	45 - 168	3.09	20	
<i>Surrogate: p-Terphenyl</i>	66.87		80.0000		83.6	55 - 153			



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B3L0431 - GCSEMI_PCB/PEST									
Blank (B3L0431-BLK1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
Aroclor 1016	ND	16			NR				
Aroclor 1221	ND	16			NR				
Aroclor 1232	ND	16			NR				
Aroclor 1242	ND	16			NR				
Aroclor 1248	ND	16			NR				
Aroclor 1254	ND	16			NR				
Aroclor 1260	ND	16			NR				
Aroclor 1262	ND	16			NR				
Aroclor 1268	ND	16			NR				
Surrogate: Decachlorobiphenyl	14.19		16.6667		85.1	16 - 152			
Surrogate: Tetrachloro-m-xylene	15.25		16.6667		91.5	38 - 131			
LCS (B3L0431-BS1)					Prepared: 12/20/2013 Analyzed: 12/20/2013				
Aroclor 1016	147.417	16	166.667		88.5	68 - 100			
Aroclor 1260	166.738	16	166.667		100	70 - 105			
Surrogate: Decachlorobiphenyl	15.21		16.6667		91.2	16 - 152			
Surrogate: Tetrachloro-m-xylene	16.38		16.6667		98.3	38 - 131			
Matrix Spike (B3L0431-MS1)					Source: 1304048-07		Prepared: 12/20/2013 Analyzed: 12/20/2013		
Aroclor 1016	147.326	16	166.667	ND	88.4	37 - 131			
Aroclor 1260	149.080	16	166.667	ND	89.4	44 - 133			
Surrogate: Decachlorobiphenyl	14.43		16.6667		86.6	16 - 152			
Surrogate: Tetrachloro-m-xylene	15.76		16.6667		94.5	38 - 131			
Matrix Spike Dup (B3L0431-MSD1)					Source: 1304048-07		Prepared: 12/20/2013 Analyzed: 12/20/2013		
Aroclor 1016	141.748	16	166.667	ND	85.0	37 - 131	3.86	20	
Aroclor 1260	147.452	16	166.667	ND	88.5	44 - 133	1.10	20	
Surrogate: Decachlorobiphenyl	14.61		16.6667		87.7	16 - 152			
Surrogate: Tetrachloro-m-xylene	15.46		16.6667		92.8	38 - 131			



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Volatile Organic Compounds by EPA 8260B - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B3L0412 - MSVOAS

Blank (B3L0412-BLK1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,1,1,2-Tetrachloroethane	ND	5.0			NR				
1,1,1-Trichloroethane	ND	5.0			NR				
1,1,2,2-Tetrachloroethane	ND	5.0			NR				
1,1,2-Trichloroethane	ND	5.0			NR				
1,1-Dichloroethane	ND	5.0			NR				
1,1-Dichloroethene	ND	5.0			NR				
1,1-Dichloropropene	ND	5.0			NR				
1,2,3-Trichloropropane	ND	5.0			NR				
1,2,3-Trichlorobenzene	ND	5.0			NR				
2,4-Trichlorobenzene	ND	5.0			NR				
2,4-Trimethylbenzene	ND	5.0			NR				
1,2-Dibromo-3-chloropropane	ND	10			NR				
1,2-Dibromoethane	ND	5.0			NR				
1,2-Dichlorobenzene	ND	5.0			NR				
1,2-Dichloroethane	ND	5.0			NR				
1,2-Dichloropropane	ND	5.0			NR				
1,3,5-Trimethylbenzene	ND	5.0			NR				
1,3-Dichlorobenzene	ND	5.0			NR				
1,3-Dichloropropane	ND	5.0			NR				
1,4-Dichlorobenzene	ND	5.0			NR				
2,2-Dichloropropane	ND	5.0			NR				
2-Chlorotoluene	ND	5.0			NR				
4-Chlorotoluene	ND	5.0			NR				
4-Isopropyltoluene	ND	5.0			NR				
Benzene	ND	5.0			NR				
Bromobenzene	ND	5.0			NR				
Bromochloromethane	ND	5.0			NR				
Bromodichloromethane	ND	5.0			NR				
Bromoform	ND	5.0			NR				
Bromomethane	ND	5.0			NR				
Carbon disulfide	ND	5.0			NR				
Carbon tetrachloride	ND	5.0			NR				
Chlorobenzene	ND	5.0			NR				
Chloroethane	ND	5.0			NR				
Chloroform	ND	5.0			NR				
Chloromethane	ND	5.0			NR				
cis-1,2-Dichloroethene	ND	5.0			NR				
cis-1,3-Dichloropropene	ND	5.0			NR				
Di-isopropyl ether	ND	5.0			NR				
Dibromochloromethane	ND	5.0			NR				
Dibromomethane	ND	5.0			NR				



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0412 - MSVOAS (continued)

Blank (B3L0412-BLK1) - Continued

Prepared: 12/20/2013 Analyzed: 12/20/2013

Dichlorodifluoromethane	ND	5.0					NR		
Ethyl Acetate	ND	5.0					NR		
Ethyl Ether	ND	5.0					NR		
Ethyl tert-butyl ether	ND	5.0					NR		
Ethylbenzene	ND	5.0					NR		
Freon-113	ND	5.0					NR		
Hexachlorobutadiene	ND	5.0					NR		
Isopropylbenzene	ND	5.0					NR		
m,p-Xylene	ND	10					NR		
1,1,1-Trichloroethylene	ND	5.0					NR		
MTBE	ND	5.0					NR		
n-Butylbenzene	ND	5.0					NR		
n-Propylbenzene	ND	5.0					NR		
Naphthalene	ND	5.0					NR		
o-Xylene	ND	5.0					NR		
sec-Butylbenzene	ND	5.0					NR		
Styrene	ND	5.0					NR		
tert-Amyl methyl ether	ND	5.0					NR		
tert-Butanol	ND	100					NR		
tert-Butylbenzene	ND	5.0					NR		
Tetrachloroethene	ND	5.0					NR		
Toluene	ND	5.0					NR		
trans-1,2-Dichloroethene	ND	5.0					NR		
trans-1,3-Dichloropropene	ND	5.0					NR		
Trichloroethene	ND	5.0					NR		
Trichlorofluoromethane	ND	5.0					NR		
Vinyl acetate	ND	5.0					NR		
Vinyl chloride	ND	5.0					NR		

<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.12		50.0000		96.2	70 - 130			
<i>Surrogate: 4-Bromofluorobenzene</i>	50.36		50.0000		101	70 - 130			
<i>Surrogate: Dibromofluoromethane</i>	48.91		50.0000		97.8	70 - 130			
<i>Surrogate: Toluene-d8</i>	50.53		50.0000		101	70 - 130			

LCS (B3L0412-BS1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,1-Dichloroethene	44.1300	5.0	50.0000		88.3	70 - 130			
Benzene	48.3600	5.0	50.0000		96.7	70 - 130			
Chlorobenzene	49.8300	5.0	50.0000		99.7	70 - 130			
MTBE	45.7500	5.0	50.0000		91.5	70 - 130			
Toluene	49.3300	5.0	50.0000		98.7	70 - 130			
Trichloroethene	48.5600	5.0	50.0000		97.1	70 - 130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.55		50.0000		97.1	70 - 130			



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B3L0412 - MSVOAS (continued)

LCS (B3L0412-BS1) - Continued

Prepared: 12/20/2013 Analyzed: 12/20/2013

Surrogate: 4-Bromofluorobenzene	49.10		50.0000	98.2	70 - 130
Surrogate: Dibromofluoromethane	48.72		50.0000	97.4	70 - 130
Surrogate: Toluene-d8	50.99		50.0000	102	70 - 130

LCS Dup (B3L0412-BS1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,1-Dichloroethene	47.5300	5.0	50.0000	95.1	70 - 130	7.42	20
Benzene	49.1400	5.0	50.0000	98.3	70 - 130	1.60	20
Chlorobenzene	49.6500	5.0	50.0000	99.3	70 - 130	0.362	20
MTBE	47.1500	5.0	50.0000	94.3	70 - 130	3.01	20
Toluene	50.6100	5.0	50.0000	101	70 - 130	2.56	20
Trichloroethene	49.2800	5.0	50.0000	98.6	70 - 130	1.47	20
Surrogate: 1,2-Dichloroethane-d4	47.78		50.0000	95.6	70 - 130		
Surrogate: 4-Bromofluorobenzene	49.64		50.0000	99.3	70 - 130		
Surrogate: Dibromofluoromethane	49.11		50.0000	98.2	70 - 130		
Surrogate: Toluene-d8	51.00		50.0000	102	70 - 130		

Duplicate (B3L0412-DUP1)

Source: 1304053-01

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,1-Dichloroethene	ND	5.0		ND	NR		20
Benzene	ND	5.0		ND	NR		20
Chlorobenzene	ND	5.0		ND	NR		20
MTBE	ND	5.0		ND	NR		20
Toluene	ND	5.0		ND	NR		20
Trichloroethene	ND	5.0		ND	NR		20
Surrogate: 1,2-Dichloroethane-d4	49.42		50.0000	98.8	70 - 130		
Surrogate: 4-Bromofluorobenzene	47.31		50.0000	94.6	70 - 130		
Surrogate: Dibromofluoromethane	49.43		50.0000	98.9	70 - 130		
Surrogate: Toluene-d8	49.04		50.0000	98.1	70 - 130		

Matrix Spike (B3L0412-MS1)

Source: 1304048-07

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,1-Dichloroethene	47.7200	5.0	50.0000	ND	95.4	70 - 130
Benzene	48.1200	5.0	50.0000	ND	96.2	70 - 130
Chlorobenzene	46.8300	5.0	50.0000	ND	93.7	70 - 130
MTBE	46.0900	5.0	50.0000	ND	92.2	70 - 130
Toluene	48.3200	5.0	50.0000	ND	96.6	70 - 130
Trichloroethene	50.7800	5.0	50.0000	ND	102	70 - 130
Surrogate: 1,2-Dichloroethane-d4	48.63		50.0000	97.3	70 - 130	
Surrogate: 4-Bromofluorobenzene	49.60		50.0000	99.2	70 - 130	
Surrogate: Dibromofluoromethane	49.75		50.0000	99.5	70 - 130	
Surrogate: Toluene-d8	49.96		50.0000	99.9	70 - 130	

Matrix Spike Dup (B3L0412-MSD1)

Source: 1304048-07

Prepared: 12/20/2013 Analyzed: 12/20/2013



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Volatile Organic Compounds by EPA 8260B - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3L0412 - MSVOAS (continued)									
Matrix Spike Dup (B3L0412-MSDI) - Continued		Source: 1304048-07		Prepared: 12/20/2013 Analyzed: 12/20/2013					
1,1-Dichloroethene	49.0000	5.0	50.0000	ND	98.0	70 - 130	2.65	20	
Benzene	49.0300	5.0	50.0000	ND	98.1	70 - 130	1.87	20	
Chlorobenzene	46.4900	5.0	50.0000	ND	93.0	70 - 130	0.729	20	
MTBE	46.8800	5.0	50.0000	ND	93.8	70 - 130	1.70	20	
Toluene	49.0300	5.0	50.0000	ND	98.1	70 - 130	1.46	20	
Trichloroethene	50.3500	5.0	50.0000	ND	101	70 - 130	0.850	20	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.51</i>		<i>50.0000</i>		<i>95.0</i>	<i>70 - 130</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>48.44</i>		<i>50.0000</i>		<i>96.9</i>	<i>70 - 130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>48.45</i>		<i>50.0000</i>		<i>96.9</i>	<i>70 - 130</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.64</i>		<i>50.0000</i>		<i>101</i>	<i>70 - 130</i>			



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Semivolatile Organic Compounds by EPA 8270C - Quality Control

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B3L0426 - MSSEMI

Blank (B3L0426-BLK1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,2,4-Trichlorobenzene	ND	330				NR			
1,2-Dichlorobenzene	ND	330				NR			
1,3-Dichlorobenzene	ND	330				NR			
1,4-Dichlorobenzene	ND	330				NR			
2,4,5-Trichlorophenol	ND	330				NR			
2,4,6-Trichlorophenol	ND	330				NR			
2,4-Dichlorophenol	ND	1600				NR			
2,4-Dimethylphenol	ND	330				NR			
2,4-Dinitrophenol	ND	1600				NR			
4-Dinitrotoluene	ND	330				NR			
6-Dinitrotoluene	ND	330				NR			
2-Chloronaphthalene	ND	330				NR			
2-Chlorophenol	ND	330				NR			
2-Methylnaphthalene	ND	330				NR			
2-Methylphenol	ND	330				NR			
2-Nitroaniline	ND	1600				NR			
2-Nitrophenol	ND	330				NR			
3,3'-Dichlorobenzidine	ND	660				NR			
3-Nitroaniline	ND	1600				NR			
4,6-Dinitro-2-methylphenol	ND	1600				NR			
4-Bromophenyl-phenylether	ND	330				NR			
4-Chloro-3-methylphenol	ND	660				NR			
4-Chloroaniline	ND	660				NR			
4-Chlorophenyl-phenylether	ND	330				NR			
4-Methylphenol	ND	330				NR			
4-Nitroaniline	ND	1600				NR			
4-Nitrophenol	ND	330				NR			
Acenaphthene	ND	330				NR			
Acenaphthylene	ND	330				NR			
Anthracene	ND	330				NR			
Benzidine (M)	ND	1600				NR			
Benzo(a)anthracene	ND	330				NR			
Benzo(a)pyrene	ND	330				NR			
Benzo(b)fluoranthene	ND	330				NR			
Benzo(g,h,i)perylene	ND	330				NR			
Benzo(k)fluoranthene	ND	330				NR			
Benzoic acid	ND	1600				NR			
Benzyl alcohol	ND	660				NR			
bis(2-chloroethoxy)methane	ND	330				NR			
is(2-Chloroethyl)ether	ND	330				NR			
is(2-chloroisopropyl)ether	ND	330				NR			



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	----------------	-----------------	------------	--------------	-------

Batch B3L0426 - MSSEMI (continued)

Blank (B3L0426-BLKI) - Continued

Prepared: 12/20/2013 Analyzed: 12/20/2013

bis(2-ethylhexyl)phthalate	ND	330						NR	
Butylbenzylphthalate	ND	330						NR	
Chrysene	ND	330						NR	
Di-n-butylphthalate	ND	330						NR	
Di-n-octylphthalate	ND	330						NR	
Dibenz(a,h)anthracene	ND	330						NR	
Dibenzofuran	ND	330						NR	
Diethyl phthalate	ND	330						NR	
Dimethyl phthalate	ND	330						NR	
Fluoranthene	ND	330						NR	
Fluorene	ND	330						NR	
Hexachlorobenzene	ND	330						NR	
Hexachlorobutadiene	ND	660						NR	
Hexachlorocyclopentadiene	ND	660						NR	
Hexachloroethane	ND	330						NR	
Indeno(1,2,3-cd)pyrene	ND	330						NR	
Isophorone	ND	330						NR	
N-Nitroso-di-n propylamine	ND	330						NR	
N-Nitrosodiphenylamine	ND	330						NR	
Naphthalene	ND	330						NR	
Nitrobenzene	ND	330						NR	
Pentachlorophenol	ND	1600						NR	
Phenanthrene	ND	330						NR	
Phenol	ND	330						NR	
Pyrene	ND	330						NR	
Pyridine	ND	1600						NR	
Surrogate: 1,2-Dichlorobenzene-d4	2578		3333.33		77.4	48 - 113			
Surrogate: 2,4,6-Tribromophenol	4003		3333.33		120	14 - 162			
Surrogate: 2-Chlorophenol-d4	2563		3333.33		76.9	40 - 117			
Surrogate: 2-Fluorobiphenyl	2743		3333.33		82.3	52 - 126			
Surrogate: 2-Fluorophenol	2320		3333.33		69.6	26 - 124			
Surrogate: 4-Terphenyl-d14	2685		3333.33		80.6	36 - 163			
Surrogate: Nitrobenzene-d5	2206		3333.33		66.2	42 - 118			
Surrogate: Phenol-d5	2385		3333.33		71.6	29 - 124			



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0426 - MSSEMI (continued)

LCS (B3L0426-BS1)

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,2,4-Trichlorobenzene	2654.33	330	3333.33		79.6	62 - 101			
1,4-Dichlorobenzene	2551.33	330	3333.33		76.5	58 - 93			
2,4-Dinitrotoluene	3294.00	330	3333.33		98.8	67 - 133			
2-Chlorophenol	2568.33	330	3333.33		77.0	63 - 100			
4-Chloro-3-methylphenol	3003.00	660	3333.33		90.1	70 - 120			
4-Nitrophenol	3394.67	330	3333.33		102	55 - 137			
Acenaphthene	2991.67	330	3333.33		89.8	73 - 112			
N-Nitroso-di-n propylamine	2362.00	330	3333.33		70.9	56 - 114			
Pentachlorophenol	3206.67	1600	3333.33		96.2	61 - 125			
Phenol	2399.33	330	3333.33		72.0	61 - 106			
Styrene	3434.00	330	3333.33		103	66 - 122			
Surrogate: 1,2-Dichlorobenzene-d4	2489		3333.33		74.7	48 - 113			
Surrogate: 2,4,6-Tribromophenol	4113		3333.33		123	14 - 162			
Surrogate: 2-Chlorophenol-d4	2482		3333.33		74.5	40 - 117			
Surrogate: 2-Fluorobiphenyl	2755		3333.33		82.6	52 - 126			
Surrogate: 2-Fluorophenol	2236		3333.33		67.1	26 - 124			
Surrogate: 4-Terphenyl-d14	2694		3333.33		80.8	36 - 163			
Surrogate: Nitrobenzene-d5	2188		3333.33		65.6	42 - 118			
Surrogate: Phenol-d5	2334		3333.33		70.0	29 - 124			



Certificate of Analysis

Stantec
 25864-F Business Center Drive
 Redlands, CA 92374

Project Number : Ocotillo Express LLC
 Report To : Kevin Miskin
 Reported : 12/23/2013

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0426 - MSSEMI (continued)

Matrix Spike (B3L0426-MS1)

Source: 1304048-07

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,2,4-Trichlorobenzene	3064.00	330	3333.33	ND	91.9	52 - 111			
1,4-Dichlorobenzene	2640.67	330	3333.33	ND	79.2	47 - 101			
2,4-Dinitrotoluene	3673.00	330	3333.33	ND	110	66 - 134			
2-Chlorophenol	2604.00	330	3333.33	ND	78.1	55 - 107			
4-Chloro-3-methylphenol	3873.67	660	3333.33	ND	116	64 - 129			
4-Nitrophenol	3847.00	330	3333.33	ND	115	56 - 144			
Acenaphthene	2939.00	330	3333.33	ND	88.2	63 - 121			
N-Nitroso-di-n propylamine	3544.33	330	3333.33	ND	106	45 - 123			
Pentachlorophenol	3171.00	1600	3333.33	ND	95.1	51 - 144			
Phenol	3090.67	330	3333.33	ND	92.7	50 - 116			
Styrene	2469.33	330	3333.33	ND	74.1	65 - 127			

<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	2380		3333.33		71.4	48 - 113			
<i>Surrogate: 2,4,6-Tribromophenol</i>	3874		3333.33		116	14 - 162			
<i>Surrogate: 2-Chlorophenol-d4</i>	2425		3333.33		72.7	40 - 117			
<i>Surrogate: 2-Fluorobiphenyl</i>	2684		3333.33		80.5	52 - 126			
<i>Surrogate: 2-Fluorophenol</i>	2239		3333.33		67.2	26 - 124			
<i>Surrogate: 4-Terphenyl-d14</i>	3989		3333.33		120	36 - 163			
<i>Surrogate: Nitrobenzene-d5</i>	3200		3333.33		96.0	42 - 118			
<i>Surrogate: Phenol-d5</i>	2622		3333.33		78.7	29 - 124			



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Semivolatile Organic Compounds by EPA 8270C - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0426 - MSSEMI (continued)

Matrix Spike Dup (B3L0426-MSD1)

Source: 1304048-07

Prepared: 12/20/2013 Analyzed: 12/20/2013

1,2,4-Trichlorobenzene	2843.67	330	3333.33	ND	85.3	52 - 111	7.46	20	
1,4-Dichlorobenzene	2629.67	330	3333.33	ND	78.9	47 - 101	0.417	20	
2,4-Dinitrotoluene	3235.67	330	3333.33	ND	97.1	66 - 134	12.7	20	
2-Chlorophenol	2698.00	330	3333.33	ND	80.9	55 - 107	3.55	20	
4-Chloro-3-methylphenol	3095.33	660	3333.33	ND	92.9	64 - 129	22.3	20	R
4-Nitrophenol	3374.67	330	3333.33	ND	101	56 - 144	13.1	20	
Acenaphthene	3085.67	330	3333.33	ND	92.6	63 - 121	4.87	20	
N-Nitroso-di-n propylamine	2502.00	330	3333.33	ND	75.1	45 - 123	34.5	20	R
Pentachlorophenol	3214.00	1600	3333.33	ND	96.4	51 - 144	1.35	20	
phenol	2452.33	330	3333.33	ND	73.6	50 - 116	23.0	20	R
ylene	3482.33	330	3333.33	ND	104	65 - 127	34.0	20	R
<hr/>									
Surrogate: 1,2-Dichlorobenzene-d4	2586		3333.33		77.6	48 - 113			
Surrogate: 2,4,6-Tribromophenol	4152		3333.33		125	14 - 162			
Surrogate: 2-Chlorophenol-d4	2597		3333.33		77.9	40 - 117			
Surrogate: 2-Fluorobiphenyl	2895		3333.33		86.8	52 - 126			
Surrogate: 2-Fluorophenol	2350		3333.33		70.5	26 - 124			
Surrogate: 4-Terphenyl-d14	2816		3333.33		84.5	36 - 163			
Surrogate: Nitrobenzene-d5	2302		3333.33		69.1	42 - 118			
Surrogate: Phenol-d5	2366		3333.33		71.0	29 - 124			



Certificate of Analysis

Stantec
25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC
Report To : Kevin Miskin
Reported : 12/23/2013

pH by EPA 9045C - Quality Control

Analyte	Result (pH Units)	PQL (pH Units)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	----------------------	-------------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0428 - Prep_WC_1_S

Duplicate (B3L0428-DUP1)

Source: 1304048-07

Prepared: 12/20/2013 Analyzed: 12/20/2013

pH	8.12000	0.10		7.65000	NR		5.96	20	
----	---------	------	--	---------	----	--	------	----	--



Certificate of Analysis

Stantec

25864-F Business Center Drive
Redlands, CA 92374

Project Number : Ocotillo Express LLC

Report To : Kevin Miskin

Reported : 12/23/2013

Notes and Definitions

S4	Surrogate was diluted out.
R	RPD value outside acceptance criteria. Calculation is based on raw values.
E4	Result value is estimated.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPPL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

CHAIN OF CUSTODY RECORD

Page 1 of 1

Instruction: Complete all shaded areas.

For Laboratory Use Only
 Sample Condition Upon Receipt

Method of Transport	Condition	Y	N
<input type="checkbox"/> Dry Ice	1. CHILLED	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Pallet	2. INSURANCE (004)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Flat	3. CONTAINER IMPACT	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other	4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>

5. # OF SAMPLES MATCH DOC
 6. PRESERVED
 7. COOLING TEMP. SEE C. 1, 2, 3, 4

Company: Stantec Consulting Services Inc. Address: 25864-F Business Center Drive, Redlands, CA 92374
 Tel: (909) 255-8210 Fax: (909) 255-8210
 Email: kevin.miskim@stantec.com
 Company: Stantec Consulting Services Inc. Address: 25864-F Business Center Drive, Redlands, CA 92374
 Tel: (909) 255-8210 Fax: (909) 255-8210
 Email: kevin.miskim@stantec.com

ITEM	Lab No.	Sample ID / Location	Sample Description	Date	Time	REMARKS
1	101048	12-12-13-01-01	Composite all 3 12-12-13-01 samples and conduct one analysis for each of the specified methods. Composite all 3 12-12-13-T27 samples and conduct one analysis for each of the specified methods.	12/12/13	8:00 am	QA/QC <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RW/QCB <input type="checkbox"/> Level IV
2	101049	12-12-13-01-02		12/12/13	8:15 am	
3	101050	12-12-13-01-03		12/12/13	8:30 am	
4	101051	12-12-13-T27-02		12/12/13	11:45 am	
5	101052	12-12-13-T27-03		12/12/13	12:30 pm	
6	101053	12-12-13-T27-04		12/12/13	1:15 pm	

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: Kevin Miskim
 Signature: *Kevin Miskim*

Received By: (Signature and Printed Name) *Kevin Miskim*
 Date: 12/13/13
 Time: 1:15 pm



Stantec Consulting Services Inc.
25864-F Business Center Drive
Redlands, CA 92374
Tel: (909) 335-6116
Fax: (909) 335-6120

February 4, 2014

Ocotillo Express LLC
1377 West Imperial Highway
Ocotillo, California

RE: Waste Characterization, Oil Impacted Gravel

Stantec Consulting Services Inc. (Stantec) has prepared this document expressing our professional opinion as the characterization of one drum of oil-impacted engineered gravel. The oil impacts resulted from a release of transformer oil into the gravel containment area. The oiled-gravel was removed and contained in a single drum for characterization.

Three samples were collected from the bottom third, middle third and top third of each drum. The laboratory was directed to composite the samples from each drum into a single sample representing the contents of each drum. Composite 12-12-13-T27-02/03/04 represents the oiled gravel from the transformer release.

All samples were collected, in pre-cleaned laboratory-provided glass jars, labelled, preserved in an iced-cooler and transported to Advanced Technology Laboratory (ATL) for analysis. ATL is certified by the California Environmental Laboratory Accreditation Program for each the analyses performed.

The samples were analyzed for the following:

- Title 22 metals by EPA method 6010B/7471A
- Polychlorinated biphenyls (PCBs) by EPA method 8082
- Volatile Organic Compounds (VOCs) by EPA method 8260B
- Semi-VOCs by EPA method 8270C
- pH by EPA method 9045C
- Extractable total petroleum hydrocarbons (TPH) by EPA method 8015B

Based on the results the following are noted:

- Title 22 metals were reported at low concentrations consistent with expected soil background
- PCB Aroclors were not reported above laboratory Practical Quantitation Limits (PQLs).
- VOCs were not reported above laboratory PQLs.



Ocotillo Express LLC
February 4, 2014
Page 2

- Semi-VOCs were not reported above laboratory PQLs.
- pH was reported at 8.8
- TPH
 - TPH diesel (DRO) was reported at 7,500 mg/kg
 - TPH oil (ORO) was reported at 6,300 mg/kg

Waste Characterization

None of the waste contained free oil and; therefore, does not qualify as used oil (Code of Federal Regulation (CFR) 40 Section 279.10). Consequently, the oil-impacted gravel does not qualify as a hazardous waste based on the presence of used oil. Similarly, the oil-impacted gravel does not qualify as a listed waste based on the criteria set forth in the California Code of Regulation (CCR) Section 66261.

Laboratory testing was conducted to evaluate whether chemical constituents might be present that would qualify the drummed materials qualify as a hazardous waste based on a characteristic of toxicity. None of the analytes were reported above the thresholds listed in CCR Section 66261.24. Similarly, pH testing indicates that the materials do not qualify as a hazardous waste based on a characteristic of corrosivity (CCR Section 66261.22). In addition, the contained materials are impacted with heavy hydrocarbons with flashpoints greater than 295 degrees Fahrenheit and do not represent a characteristic of ignitability (CCR Section 66261.21).

Based on these findings, Stantec opines that the drummed materials may be transported, disposed or recycled as non-hazardous waste.

Stantec is grateful for the opportunity to serve you. If you have any questions, please contact the undersigned at your convenience.

Sincerely,

STANTEC CONSULTING SERVICES INC.

Kevin Miskin, P.E.

Principal Engineer

Tel: 909.335.6116 ext. 8210

Fax: 909.335.6120

Email: kevin.miskin@stantec.com

Attachments:

ATL Laboratory Reports
Material Safety Data Sheets