

May 10, 2013

Mr. Will Welling
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Subject: Semiannual Discharge Monitoring and Site

Inspection Report - March 2013

Primoshield Incorporated Site, Site No. 633027

MACTEC Engineering & Consulting, P.C., Project No. 3612122251

Dear Mr. Welling:

On behalf of the New York State Department of Environmental Conservation (NYSDEC) and work assignment D007619-18, MACTEC Consulting and Engineering P.C. (MACTEC) submits this Quarterly Inspection Report for the Primoshield Incorporated Site (Site), NYSDEC Site # 633027, located in Utica, NY. The Site is located at 1212 St. Vincent Street, is approximately 0.86 acres in size and is bordered by Conkling Avenue on the Northwest and St. Vincent Street on the South and East.

The Primoshield site is a former metal electroplating facility; the Site has a Classification Code of 4 (Site Management [SM]). The Site's Record of Decision consisted of a groundwater and treatment system with contaminated groundwater being treated by carbon filtration, then being discharged to the Publicly Owned Treatment Works. The treatment system was initially installed to treat trichloroethene, 1,1,1-thrichloroethane, 1,1-dichloroethane, and chromium in the site groundwater; however, the contaminant concentrations at the site since 2001 have not warranted the use of carbon filters in the system. Currently, SM includes Long Term Monitoring consisting of groundwater monitoring every 15 months, semi-annual discharge monitoring, and quarterly (winter, spring, summer, fall) site inspections (NYSDEC, 2012). This report presents the findings

of the quarterly Site inspection (spring) and semiannual discharge monitoring performed during March 2013.

Site Inspection

The Site inspection was conducted on March 26, 2013 for the following:

- Check treatment system operations;
- Inspect the physical conditions of site; and
- Carry out any maintenance or repairs as needed.

Figure 1 shows the Site location and Figure 2 shows the Site features. Inspection form and photo documentation of the inspection are provided in Attachment 1.

Treatment System

The treatment system was observed to be operating upon arrival. Consistent with previous inspections, the basket strainers were observed to be clogged with fine silt and grass clippings potentially hindering system performance. The basket strainers were removed from the system and the grass directly around the collection manhole was replaced with gravel in order to minimize the amount of grass clippings entering the treatment system. System flow was observed to be approximately 30 gallons per minute (gpm) (after cleaning the strainer).

Site Conditions

The physical condition of the site was inspected for noticeable deviations since the last site inspection was conducted (January 2013). Conditions at the site are consistent with previous inspections. Observations noted and documented during the Site inspection are provided in Attachment 1.

- Collection system clean-out pipes (5 total on 3 drain lines) are in good condition (lids secure and concrete intact). Three clean-outs are located within the fenced in area of the site and 2 are located just northeast of the site on private property. The drain lines transfer shallow groundwater to the treatment system via a manhole/sump vault.
- Treatment plant piping and valves appear to be in good condition as there are no visible breaks or leaks.
- The treatment building is in good condition no leaks in the roof, doors and hinges work.

• The perimeter fence is upright; the 2 locations that were found to be compromised during previous inspections were repaired (one temporarily – see photos in Attachment 1). One additional fence was noted to need vendor repair (awaiting cost estimate from vendor).

Semiannual Discharge Monitoring

A sample of the treatment system effluent was collected and submitted to ALS laboratory for the following analysis: volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) method 624, metals (cadmium, chromium copper, nickel, lead and zinc) by USEPA method 200.7, cyanide by USEPA method 9012B and pH by Standard Method 4500. Laboratory results indicate concentrations are below the publicly owned treatment water (POTW) discharge criteria (see below). The field data record and laboratory report are included in Attachment 2.

Results Semiannual Discharge March 2013

POLLUTANT/PARAMETER	POTW	March 2013
	Limit	Results
Total Flow, gal/month	No Limit	
рН	5.0-12.5	7.19
Cadmium, mg/L	1	0.00035 U
Chromium, mg/L	5	0.00082 U
Copper, mg/L	3	0.0029 J
Lead, mg/L	5	0.00081 U
Nickel, mg/L	2	0.037 J
Zinc, mg/L	4	0.0028 J
Cyanide, mg/L	3	0.01 U
Total VOCs, mg/L	2.0*	0.024

mg/L- milligrams per liter

*Total Volatile Organics is the sum of all detectable VOCs.

Bold results indicate the parameter was detected.

J=estimated value

U=not detected; value represents the sample quantitation limit

May 2013

March 2013 Inspection Report - Primoshield NYSDEC - Site No. 633027

MACTEC Engineering and Consulting, P.C., Project No. 3612122251

Conclusions

The Site's groundwater collection system was observed in operational condition at the time of the March 2013 inspection event. Issues have been observed in the recent past with the basket strainers being clogged upon arrival to the site resulting in low flow observed (~ 5 gpm) at the totalizer. The flow is observed to resume to normal operating conditions (~ 30 gpm) after the As the basket strainers are not required to comply with the POTW strainers are cleaned. discharge permit the baskets were removed during this inspection event.

Recommendations

Recommendations for the items described above are as follows:

- Continue inspections and performance monitoring on a semi-annual basis.
- Subcontract with a fencing company to complete the fence repairs.

MACTEC will coordinate and implement these recommendations with concurrence and approval by the NYSDEC. The next semiannual inspection event will occur in September 2013.

Please feel free to contact us if you have any questions.

Sincerely,

MACTEC Engineering & Consulting, P.C.

Jayme P. Connolly

Anne P. G

Project Manager

Principal Professional

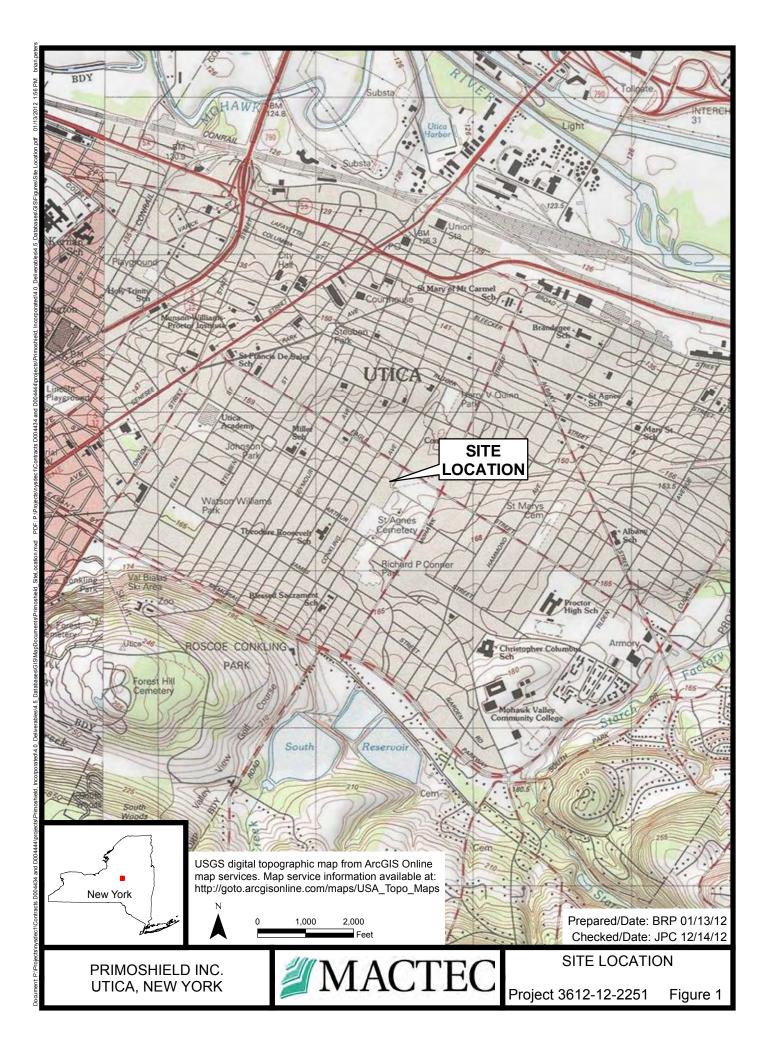
Enclosures

Attachment 1: Inspection Form & Photos

Attachment 2: Field Data Records, Lab Report, and Chain of Custody

REFERENCES

New York State Department of Environmental Conservation, 2012. WA Approval Letter, Contract/WA No.: D007619-18, Primoshield, Incorporated Site No.: 633027, October 5, 2012.





PRIMOSHIELD INC. UTICA, NEW YORK



Project 3612-12-2251 Figure 2

ATTACHMENT 1

INSPECTION FORM & PHOTOS

New York Department of Environmental Conservation Inactive Hazardous Waste Site Inspection Form-Treatment Systems

Site Name: Primoshield Inc.					Site Number		NYSDEC PM:
				633027			Will Welling
Site Location: St. Vincent Street, Utica, NY				Site Classif	fication # (ci	rcle):	Primary Site Contact:
				1 1 2	2a 3	(4)	Will Welling
							lu G
Site Inspection Date:		Purpos	e of Insp	ection:	Quarte	يا يا	
3/26/13		PRS 41		1		2, 2	T. 13
Name of Inspector: Jeri Kiburz		Title:		Agency/Co	mpany:		Address: 511 Congress Streeet, Suite 200
27		En		MACTEC	/AMÉC		Portland, ME 04101
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210-010-0100	SESSOT PART	nent Sys	Carrie		CERTIFICATION OF THE	V 00 14 24 14	
	18 60%						
System Status	100.00					General O	bservations:
System in Operation During Visit?	Yes.	> 1	contravent district	No	******************************		
Manned on a Fulltime basis?	Yes			(No)		Sust	em in auto and na upon arrival, ched to manual
Maintenance Logs Current?	Yes			Vo.	NA .		as word currinal.
Equipment Calibration Logs Current?	Yes			Vo	(NA)	chen.	(9)
Pump working?	Yes			Nø		Swit	ched to manual
Initial flow rate (gpm): Pressure before basket strainers (P1):	10,	<u>්</u>				، حا	Aitrago paga hegan
Pressure defore basket strainers (F1): Pressure after basket strainers; (P2)		ਠ				Ø 10	punp began operating
Basket Strainer Inspected and cleaned?	(Yes			No			
Flow rate after cleaning filters (gpm):	~.3	0				Sw:tel	hed pump of cha
Pressuer after cleaning basket strainers: (P1)	Yes	<u> </u>		(No)		cleane	hed pump off and a basket strainers.
Totalizer reading (gallons)		<u>335</u> 9	ને (બ્)	<u>0955</u>		4 h cm 1	~ ~ ~ \^\cd \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Discharge Monitoring	Yes			NO		معدران	soft were ~50%.
Does the system require a discharge permit or discharge to a POTW?	Yes	ノ		No		المران	anth were ~ 50%.
Is Permit Performance Monitoring Implemented?	(Yes	>		Νo		درو ا	50 111
Condition of Operational Controls	Good	l	1	Poor	NA	Very	Fine silt removed.
Condition of Gauges	(Good		J	oor	NA	λ ,	J. Connolly (AMEC)
Condition of flow meters	Goo			Poor	NA NA	ter o	n' Couverily
Condition of System Alarms	(Goo.			oor	NA NA	strain	ners were removed
Condition of Pumps	Goo			Poor	NA	2.	housing and system
Condition of Flow Pipes or Hoses	Goo	إإ		Poor	NA '	#rom.	11003.170
Pipes Labeled with Direction of Flow and Contents	Yes		(No)	NA	operas	ing w/o them.
Condition of Valves	Goo	<i>a</i> >		Poor	NA.		
Condition of Containment Structures (berms etc.)	7Gao			Poar	NA NA		i
Evidence of Leaking	Yes			Ño)	NA.		
Condition of Feed/Extraction Pumps	Gog			oor	(NA)	•	
Vaulted Area Condition	(Gao			oor	NA.		
Lighting in Work Areas Adequate	Yes			No	NA NA		
Göndition of Göllection/Dischargestirenches	Goo			oor .	NA		
Clean of Debris Evidence of Sedimentation	Gôo			Poor	NA (ÑA)		
	Goo			Paar	(NA)	1	
Air:Stripper/Condition Noticeable Odors	Goo Yes		· · · · ·	Poor No	(NA)	1	•
Air Emission Permit Required	Yes			No	(MA)	l	•
Permit Performance Monitoring Implemented	Yes			No	(M)	Ì	
Condition of Storage Tanks/Containers	God	d		Poor	(ÑA)		
Evidence of Leaks	Yes			No	(ŃÀ)]	
Tank Compatible with Contents	Yes			No	(M)		
Evidence of Leaks	Ye.			No No	(NA)	ł	
Labeled Appropriately Condition(of Eliter Presses	God			Poor	NA)	ł	•
Gondition of Extraction Wells/Recharge Wells	God			Poor	(NA)	1	
List other applicable treatment systems/components and their overall con			<u> </u>			, , , , , , , , , , , , , , , , , , , ,	
Zint onto upprecion visiting and a second control of the second co		*					•
	Chemical	Harring	Prantin			****	THE RESIDENCE OF SHARE A SAME
Are good management practices and handling requirements being	total and the state of the state of	and believe		orden action in the		General	Observations:
Are good management practices and handling requirements being applied?		s	1	No	(NA)	1	
Does the usage of chemical for the treatment system appear to meet			<u> </u>			00	Chemicals in use!
O&M specifications?	Ye	s	<u> </u>	No	(NA)	<u></u>	- AMELINA

Primoshield 3/26/13

New York Department of Environmental Conservation Inactive Hazardous Waste Site Inspection Form-Treatment Systems

Pg. 2 of 2

(50) Interviews/Additional Contacts 200 Name/Title Contact Information Company/Entity Additional Observation Notes: 1075 - concrete pad heaved, casing very loose. wells 1015 - casing bent. in need of repair in 2 locations. Perimeter Fencing Photograph Log Photograph 1 Photograph 2 Photograph 3 Photograph 4 Photograph 5 Photograph 6 Photograph 7 baslat Photograph 8 Photograph 9 Photograph 10 Performance Monitoring Were check samples collected during this visit? (Yes) No (Discharge Monitoring Effluent Sample type collected (circle or write in other): Groundwater List Parameters/Methods Collected Per Media: VOC (624) Cycnide (9010) pH (150.1) Cadmium, Chromium, Copper, Lead, Nickel, Zinc (200.7) Analytical Laboratory/Location: Sample Observations:

Photo Log (com.d)

- II North end of Treatment building and water collection
- 12. collection manhole
- 13. Monitoring wells P-1065 (back) and P-106 D (from)
- 14 Slightly heaved cleanout cap near P-106 S/D
- 15. monitineing well P-103
- 16. Gap in fence near P-1065/0
- 17. Fence after Repair
- 18 Hole in fence near northwest corner, Conkling avenue
- 19. Fence after repaire (temporary)
- 20. Loose fence post against building and Dorthern perimeter
- 21. Monitoring well P-105
- 22 Cleanout cover in southeast corner of site
- 23 South end of Treatment building and gravel entry drive
- 24 Chanout cover North of site looking south
- 25 Collection mantile coure
- 26. north end interior of Treatment building



Photo 1: Monitoring Well P101S damage view



Photo 2: Monitoring Well P-101D cracked concrete, tilted possibly from snow plowing.



Photo 3: Monitoring Well P-101D (front) and P-101S (back)



Photo 4: Monitoring Well P-108 slight heaving of concrete pad (view 1)



Photo 5: Monitoring Well P-108 slight heaving of concrete pad (view 2)



Photo 6: Basket strainers from the Treatment system



Photo 7: View of holders for the basket strainers



Photo 8: Electric control panel on north wall of Treatment building



Photo 9: Monitoring Well P-107S



Photo 10: Monitoring Well P-107D



Photo 11: North end of Treatment building and water collection manhole



Photo 12: Collection manhole



Photo 13: Monitoring Wells P-106S (back) and P-106D (front)



Photo 14: Slightly heaved cleanout cap near P-106S/D



Photo 15: Monitoring Well P-103



Photo 16: Gap in fence near P-106S/D



Photo 17: Fence after repair



Photo 18: Hole in fence near northwest corner, Conkling Avenue



Photo 19: Fence after repair (temporary)



Photo 20: Loose fence post against building and southern perimeter of site (repair pending)



Photo 21: Monitoring Well P-105



Photo 22: Cleanout cover in southeast corner of site



Photo 23: South end of Treatment building and gravel entry drive



Photo 24: Cleanout cover north of site looking south



Photo 25: Collection manhole cover

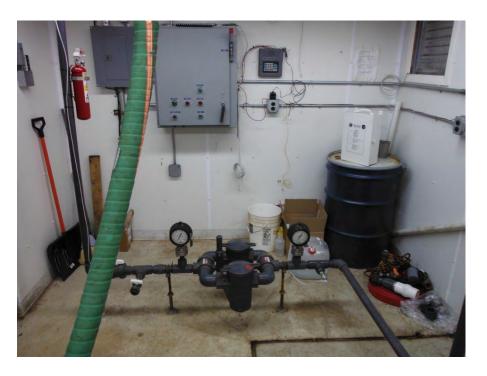


Photo 26: North end interior of Treatment building

ATTACHMENT 2

FIELD DATA RECORDS, LAB REPORT, AND CHAIN OF CUSTODY



April 23, 2013

Service Request No: R1302097

Ms. Jayme Connolly AMEC Environmental & Infrastructure 511 Congress Street Portland, ME 04112-7050

Laboratory Results for: NYSDEC Primoshield/3612122251

Dear Ms. Connolly:

Enclosed are the results of the sample(s) submitted to our laboratory on March 29, 2013. For your reference, these analyses have been assigned our service request number **R1302097**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7469. You may also contact me via email at Mike.Perry@alsglobal.com.

Respectfully submitted,

ALS Group USA Corp. dba ALS Environmental

Michael Perry

Laboratory Manager

Page 1 of 67

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623 PHONE 585-288-5380 | FAX 585-288-8475 ALS GROUP USA, CORP. Part of the ALS Group | An ALS Limited Company

ALS Environmental

Client:

AMEC

Project:

NYSDEC Primoshield

Sample Matrix: Water

Service Request No.:

R1302097

Project Number: Date Received: 361222251 3/29/13

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, ASP-B deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

AMEC water samples were collected on 3/26/13 - 3/27/13 and received at ALS in good condition at a cooler temperature of 4.7 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the second page of the Case Narrative for a cross-reference between Client ID and CAS Job #.

Inorganic Analysis

One water sample was analyzed for TCN by EPA method 9012B and pH by method SM 4500-H+.

All blank spike recoveries (LCS) were within QC limits.

No analytical or QC problems were encountered.

Metals Analysis

One water sample was analyzed for a site list of metals by EPA method 200.7. Ten water samples were analyzed for a site list of total metals and two water samples were analyzed for a site list of dissolved metals by SW-846 method 6010C

All blank spike recoveries (LCS) were within QC limits.

No analytical or QC problems were encountered.

Volatile Organic Analysis

One water sample was analyzed for the PPL list of volatiles by EPA method 624. Eleven water samples were analyzed for TCL volatiles by SW-846 method 8260C

The initial and continuing calibration criteria were met for all analytes.

All surrogate standard recoveries were within acceptance.

All blank spike recoveries (LCS) were within QC limits.

All recoveries were within QC limits.

The laboratory blanks were free of contamination except a "J" flagged value for Bromomethane. Any data detected within 5X this value in the samples was flagged with a "B".

All samples were analyzed within the 14 day holding time as specified in the method.

No other analytical or QC problems were encountered.

R1302097 Page 2

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package, has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry Laboratory Manager

Page 1

ALS ASP/CLP Batching Form/Login Sheet

Date Revised: Date Due: 4/19/13 Protocol: SW846 Shipping No.: SDG #:	
Batch Complete: Yes Diskette Requested: Yes Date: 4/1/13 Custody Seal: Present/Absent: Chain of Custody: Present/Absent:	
Client Proj #: 3612122251 Submission: R1302097 Client AMEC Environmental & Infrustrucl Client Rep: MPERRY Project: NYSDEC Primoshield	
Client Proj # Submission Client Client Rep: Project:	

Remarks	Sample Condition																				
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Ha						_							L								
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Date	Sampled	2177113	0/2//10	3/2//13	3/2//13	3/27/13	3127113	01/17/10	3/2//13	3/27/13	0.01710	3/2//13	3/26/13	2108/12	01/07/0	3/2//13	3/27/13	0107140	3/2//13	3/28/13	
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CAS Job#	174200007 004	K1302097-001	R1302097-002	R1302097-003	R1302097_004	D420202	CUU-/8020CIA	R1302097-006	R1302097_007	10020017	R1302097-008	D1202007 000	800-1807-003	K1302097-010	R1302097-011	D4202007 042	K130Z08/-01Z	R1302097-013	D1300007 011	\$1.0-1607001V	

08664

CLP Batching Form



REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics-Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.



Rochester Lab ID # for State Certifications1

NELAP Accredited	Maine ID #NY0032	New Hampshire ID #
Connecticut ID # PH0556	Nebraska Accredited	294100 A/B
Delaware Accredited	Nevada ID # NY-00032	North Carolina #676
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania 1D# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047		Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://alsglobal.com/environmental/laboratories/rochester-environmental-lab.aspx

ALS GROUP USA, CORP. Part of the ALS Group A Campbell Brothers Limited Company



ALS) Environmental

6753 CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

Я 1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 👤

Preservative Key
0. NONE
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4 REMARKS/ ALTERNATE DESCRIPTION INVOICE INFORMATION 8. Other ANALYSIS REQUESTED (Include Method Number and Container Preservative) Printed Name Date/Time Signature # 요 Fim IV. Data Validation Report with Raw Data ž REPORT REQUIREMENTS (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries Results + QC Summaries RELINQUISHED BY I. Results Only Edata Printed Name Date/Time 4 TURNAROUND REQUIREMENTS Stomen an **RUSH (SURCHARGES APPLY)** 3 day 00:91 REQUESTED REPORT DATE RECEIVED BY — 1 day ——2 day ——4 day ——5 day Date/Timg-09-13 PRESERVATIVE NUMBER OF CONTAINERS ع RELINQUISHED BY tige, cunningham Edmer, com Sanders payned Name [] Teri / [box 2 Project Number 36121204.xx MATRIX PU# CO 13400946 E Report of 13se Cuningham TIME SPECIAL INSTRUCTIONS/COMMENTS

Metals

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Distribution: White - Lab Copy; Yellow - Return to Originator

© 2012 by ALS Group

ALS
Project/Client_
Cooler received

Cooler Receipt and Preservation Check Form

	Client	AME		Fc	lder Number	1<-	209()	 '		
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			vithin 0° - 6° C?: ow Date/Time)N Y i atures Taken	-) ~	19-13 @ 1	N. 08	Y N	
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xplain	any discre	pancies:	 	T B	T 0 1 - 1D	Vol.	Lot Added	Final	Yes = All	
H .	Reagent	YES NO	Lot Received	Exp	Sample ID	Added	Lot Added	pH	samples OK	
12	NaOH	1/	MC1151915	214						
2	HNO₃		BDB 26126P	2/17					No = Samples	
	H₂SO₄				ļ				were	
4	NaHSO ₄								preserved at	
esidual	For TCN	.	If present, contact add ascorbic acid	PM to					lab as listed	
hlorine	Phenol and 522		Or sodium sulfite ((522)					PM OK to	
1	Na ₂ S ₂ O ₃			Î			re analysis – pł		Adjust:	
<i>)</i>				<u> </u>			VOAs or Gen	Chem		
)	Zn Aceta			ĺ	on a separate	worksnee	et			
)	HCI	* *			İ					
)	HCI		0107137	L	j		·			
	HCI numbers:		0107137	A-	J	166 D	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. 1	L (1222-1	νV
) ottle lot ther Con	HCI numbers:		010713-2 6 Sottle 1	A	`633027F	106D)	XX (abeled	ا مدن م	D" as "633027P1	% X
	HCI numbers:		010713-2 6 SotHe 1	A	`633027F	106D)	XX* (abeled	>- (Ab	D" as "633027P10	% X
	HCI numbers:		010713-2 6 Sottle 1	A	1 `633027F	106D)	XX* (abeled	ملی م	D" as "633027P16	% X

C Secondary Review: MO 3/24/13
3:\SMODOCS\Cooler Receipt 6.doc 11/6/1

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

ALS ENVIRONMENTAL

Analytical Report

Client: AMEC Environmental & Infrustructure (Formerly MACTEC)

Project: NYSDEC Primoshield/3612122251

Sample Matrix: Water

Date Collected: 3/28/13 1000 Date Received: 3/29/13 Date Analyzed: 4/1/13 17:20

Sample Name: 633027Effluent Units: µg/L Lab Code: R1302097-014 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 624

Analysis Lot: 334553 Data File Name: $I: ACQUDATA \\ MSVOA6 \\ DATA \\ \ 040113 \\ \ Z6254.D \\ \ \\$ Instrument Name: R-MS-06

Dilution Factor: 1

Service Request: R1302097

CAS No.	Analyte Name	Result Q	MRL	Note	
71-55-6	1,1,1-Trichloroethane (TCA)	8,8	1.0		
79-34-5	1,1,2,2-Tetrachloroethane	1.0 U	1.0		
79-00-5	1,1,2-Trichloroethane	1.0 U	1.0		
75-34-3	1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0		
75-35-4	1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0		
107-06-2	1,2-Dichloroethane	1.0 U	1.0		
78-87-5	1,2-Dichloropropane	1.0 U	1.0	<u></u>	
110-75-8	2-Chloroethyl Vinyl Ether	10 U	10		
107-02-8	Acrolein	10 U	10		
107-13-1	Acrylonitrile	10 U	10		
71-43-2	Benzene	1.0 U	1.0		
75-27-4	Bromodichloromethane	1.0 U	1.0		
75-25-2	Bromoform	1.0 U	1.0	···	
74-83-9	Bromomethane	1.0 U	1.0		
56-23-5	Carbon Tetrachloride	1.0 U	1.0		
108-90-7	Chlorobenzene	1.0 U	1.0		
75-00-3	Chloroethane	1.0 U	1.0		
67-66-3	Chloroform	1.0 U	1.0		
74-87 - 3	Chloromethane	1.0 U	1.0	·	
124-48-1	Dibromochloromethane	1.0 U	1.0		
75-09-2	Methylene Chloride	1.0 U	1.0		
100-41-4	Ethylbenzene	1.0 U	1.0		
127-18-4	Tetrachloroethene (PCE)	1.0 U	1.0		
108-88-3	Toluene	1.0 U	1.0		
79-01-6	Trichloroethene (TCE)	15	1,0		
75-69-4	Trichlorofluoromethane (CFC 11)	1.0 U	1.0		
75-01-4	Vinyl Chloride	1.0 U	1.0		
10061-01-5	cis-1,3-Dichloropropene	1.0 U	1.0		
179601-23-1	m,p-Xylenes	2.0 U	2.0		-
95 - 47-6	o-Xylene	1.0 U	1.0		
156-60-5	trans-1,2-Dichloroethene	1.0 U	1.0		
10061-02-6	trans-1,3-Dichloropropene	1.0 U	1.0		

ALS ENVIRONMENTAL

Analytical Report

Client:

AMEC Environmental & Infrustructure (Formerly MACTEC)

Project:

NYSDEC Primoshield/3612122251

Sample Matrix:

Water

Service Request: R1302097 Date Collected: 3/28/13 1000

Date Received: 3/29/13 **Date Analyzed:** 4/1/13 17:20

Units: Percent

Sample Name: Lab Code:

633027Effluent R1302097-014

Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 624

Data File Name:

I:\ACQUDATA\MSVOA6\DATA\040113\Z6254.D\

Analysis Lot: 334553

Instrument Name: R-MS-06

Dilution Factor: 1

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
1,2-Dichloroethane-d4	95	79-123	4/1/13 17:20	
4-Bromofluorobenzene	100	79-119	4/1/13 17:20	
Toluene-d8	101	83-120	4/1/13 17:20	

METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

Contract:	R1302097	7		633027E	Effluent
Lab Code:		Case No.:	SAS No.:	SDG NO.:	633027P101DX
Matrix (soi	l/water):	WATER	Lab Sample ID:	R1302097-014	!
Level (low/	med):	LOW	Date Received:	3/29/2013	

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	С	Q	М
7440-43-9	Cadmium	0.353	U		P
7440-47-3	Chromium	0.816	ľΰ		P
7440-50-8	Copper	2.9	J		P
7440-02-0	Nickel	36.7	J		P
7439-92-1	Lead	0.813	U		P
7440-66-6	Zinc	2.8	JJ		P

Color Before:	COLORLESS	Clarity Before:	CLEAR	Texture:	<u> </u>
Color After:	COLORLESS	Clarity After:	CLEAR	Artifacts:	
Comments:					

ALS ENVIRONMENTAL

Analytical Report

Client:

AMEC Environmental & Infrustructure (Formerly MACTEC)

Project:

NYSDEC Primoshield/3612122251

Sample Matrix:

Water

633027Effluent

Sample Name: Lab Code:

R1302097-014

Service Request: R1302097
Date Collected: 3/28/13 1000

Date Received: 3/29/13

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilutior Factor	n Date Extracted	Date Analyzed	Note
Cyanide, Total	9012B	0.010 U	mg/L	0.010	1	4/ 1/13	4/2/13 11:02	
pH	SM 4500-H+ B	7.19	pH Units		1	NA	4/1/13 12:45	Н
Temperature of pH Analysis	SM 4500-H+ B	18.5	deg C		1	NA	4/1/13 12:45	H

Form 1A

SuperSet Reference:

13-0000243323 rev 00

90664