

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
 Same Day  
 24 Hours  
 48 Hours  
 72 Hours  
 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required							COMMENTS	Misc./PO#	
								PCB <sub>s</sub> (DRY WEIGHT)	VOC <sub>s</sub>	TPH 80150	TIC y u	S7C 303240	TCP 303240	RECOVERED			
1A	210707-14	01.08.01		SOLID	1				X	X	X	X	X	X	X		
2A	1-15				1				X	X	X	X	X	X	X		
2B	1-16				1	X bag			X	X	X	X	X	X	X		

Company Name: **SP, MONTICELLO** Project Contact: **T.F. PETERSON** Sampler's Signature: \_\_\_\_\_  
 Address: **545 GAGE RD** Tel: **714.767.2241** Project Name/ID: **20210408-47-SOL, PAVING**  
 City/State/Zip: **MONTICELLO, CA 90040** Fax/Email: **tpeterson@sarecycling.com** **RS-PRK**  
 Relinquished by: **[Signature]** Received by: **[Signature]** Date & Time: **01/08/01**  
 Relinquished by: **[Signature]** Received by: **[Signature]** Date & Time: **01/09/01**  
 Relinquished by: \_\_\_\_\_ Received by: \_\_\_\_\_ Date & Time: \_\_\_\_\_

Instructions for Sample Storage After Analysis:  
 Dispose of  Return to Client  Store (30 Days)  
 Other: \_\_\_\_\_

**CHAIN OF CUSTODY RECORD**

WHITE WITH SAMPLE • YELLOW TO CLIENT



# SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 26166

### Generator Billing Information

Name: SA RECYCLING LLC (ACCT #333442)  
Address: 2411 N GLASSELL ST  
City: ORANGE  
State: CA Zip: 92865  
Phone: 714.764.2241 Fax: \_\_\_\_\_  
Contact: TODD PETERSON

### Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO ROAD  
SYLMAR, CA 91342  
818.833.6500

Project: 1545 GAGE RD, MONTEBELLO County and State of Origin: LOS ANGELES, CA

Additional Information: \_\_\_\_\_

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal:**

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc.	Transportation
NON HAZ SOIL	LANDFILL	[REDACTED]	[REDACTED]	N/A

Additional Information: [REDACTED]

PROFILE EXPIRES 4/26/22 | MATERIAL CODE VG-SW-CONT. SOIL | EAV 20 TONS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 20 TONS Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 4/28/21 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

### GENERATOR

[Signature]  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
TODD PETERSON, CHEMIST  
NAME AND TITLE (PLEASE PRINT)  
07.28.2021  
DATE

### REPUBLIC SERVICES/COMPANY

\_\_\_\_\_  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
EDWARD ANTOLIN, MESE  
NAME AND TITLE (PLEASE PRINT)  
4/28/2021  
DATE

# Terms and Conditions of Special Waste Service Agreement

**The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").

**Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").

**Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).

**Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.

**Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.

**Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.

**Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.

**Driver's Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.

**Indemnification.** Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.

**Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	\$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial

General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

**14. Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

**15. Assignment.** Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

**16. Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

**17. Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

**18. Miscellaneous.**

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
- (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
- (G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
- (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

**20. Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

**21. Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: \_\_\_\_\_ REPUBLIC SERVICES/COMPANY: \_\_\_\_\_ December 2018



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51232126494

Expiration Date  
5/4/2022

### I. Decision Request:

Initial    Recertification    Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: GREENFIELD PRODUCE IMPORTS

Generator Site Address: 718 S ALAMEDA ST

City: LOS ANGELES

County:

State: CA

Zip:

Name of Waste: HAWAII SWEET POTATO

Estimated Annual Volume: 660 Pounds

### II. Special Waste Department Decision:

Approved    Rejected

Management Method(s):    Landfill    Solidification    Bioremediation    Deep Well    Transfer Facility

Problematic Special Waste according to Republic?    Yes    No

If yes, which one?

Approved by Special Waste Review Committee?

Yes    No    Not Applicable

### Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature:

Name (Printed): Suzanne Glass

Date: 6/18/2021

### III. Facility Decision:

Approved    Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Name (Printed): CHRIS COYLE

Date: 6/18/2021

# Special Waste Profile



Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 5123 21 26494

Sales Rep #:

## I. Generator Information

Generator Name: Greenfield Produce Imports

Generator Site Address: 718 S. Alameda Street

City: Los Angeles County: Los Angeles State: California Zip: 90021

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address  (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Peter Chhoeu Email: sendtome16@yahoo.com

Phone Number: 213-713-2805 Ext: Fax Number: 213 623 8897

## II. Billing Information

Bill To: Greenfield Produce Imports Contact Name: Peter chhoeu

Billing Address: 718 S. Alameda st. Email: sendtome16@yahoo.com

City: los angeles State: California Zip: 90021 Phone: 213 623 8887

## III. Waste Stream Information

Name of Waste: Hawaii sweet potato

Process Generating Waste: sweet potato was found with insects by LA county department of agriculture

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Bagged

Estimated Volume: 660 LBS Volume Type: Pounds

Frequency: One-time Event (single project) Disposal Consideration: Landfill

## IV. Representative Sample Certification

No Sample Taken \*PER PC EMAIL DATED 5/4/2021 kk

Sample Taken Type of Sample --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No

Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

# Special Waste Profile



## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

1.
2.
3.
4.
5.

% By Weight (out of 100% - ranges acceptable):

1.
2.
3.
4.
5.

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.

## Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture?  Yes  No
2. Does the waste contain sulfur or sulfur by-products?  Yes  No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- 4b. If yes to the above question, please provide clarification.

# Special Waste Profile



## VI. Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.

I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.

I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.

If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.

I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.

6/18/21

Peter <i>Peter Chhoeu</i>	<i>Chhoeu</i> President	Greenfield Produce Imports
Authorized Representative Name (Printed)	Title (Printed) <i>DC 6/18/21</i>	Company Name
<i>Peter Chhoeu</i>		5/4/21 <i>6/18/21</i>
Representative Signature		Date

## Kidd, Kelly - Stockton

---

**From:** peter chhoeu <sendtome16@yahoo.com>  
**Sent:** Tuesday, May 4, 2021 10:55 AM  
**To:** Kidd, Kelly - Stockton  
**Subject:** Re: Application

Note that (sendtome16@yahoo.com) is an external email. Report suspicious emails by clicking on "Report Phishing"

Yes  
Thanks

[Sent from Yahoo Mail for iPhone](#)

On Tuesday, May 4, 2021, 10:52 AM, Kidd, Kelly - Stockton <KKidd@republicservices.com> wrote:

Peter,

Do I have your permission to check the "no sample taken" box in section IV?

Greenfield Produce Imports

718 S Alameda St, LA, CA

Hawaii Sweet Potato

Thanks

Special Waste forms are available on our [website](#).

**Kelly Kidd**

Special Waste Sales Coordinator





# SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 26494

**Generator Billing Information**

Name: GREENFIELD PRODUCE IMPORTS (ACCT 321 CASH)  
Address: 718 S ALAMEDA ST  
City: LOS ANGELES  
State: CA Zip: 90021  
Phone: 213.713.2805 Fax: \_\_\_\_\_  
Contact: PETER CHHOEU

**Republic Waste Location (Company)**

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO RD  
SYLMAR, CA 91342  
818.362.2141

Project: FOOD PRODUCTS—SWEET POTATO County and State of Origin: LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal:**

Waste	Disposal Method	Disposal Rate:	Fees / Taxes / Misc. TAXES, ERF, FRF APPLY	Transportation
FOOD PRODUCTS	LANDFILL	[REDACTED]		N/A
N/A	N/A	N/A	N/A	N/A

Additional Information: [REDACTED]

PROFILE EXPIRES 05/04/2022 | MATERIAL CODE XD-FOOD WASTE | EAV 660 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 660 POUNDS Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1) N/A

2) N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 06/21/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

*Peter Chhoeu*  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
Peter Chhoeu  
NAME AND TITLE (PLEASE PRINT)  
6/21/2021  
DATE

REPUBLIC SERVICES/COMPANY

\_\_\_\_\_  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
EDWARD ANTOLIN, MESE  
NAME AND TITLE (PLEASE PRINT)  
6/21/2021  
DATE

# Terms and Conditions of Special Waste Service Agreement

4. **The Agreement** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, orders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
5. **Waste Accepted at Facility** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
6. **Acceptable Waste** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).
7. **Rights of Refusal/Rejection** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operators at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.
8. **Limited License to Enter** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
9. **Charges and Payment** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.
10. **Termination** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.
11. **Driver's Knowledge and Authority** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
12. **Indemnification** Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
13. **Insurance** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	\$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial

General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.
15. **Assignment** Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.
16. **Right of Disposal** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.
17. **Continuing Compliance** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.
18. **Miscellaneous**

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
- (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
- (G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
- (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.
20. **Notices** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.
21. **Liquidated Damages** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: \_\_\_\_\_

REPUBLIC SERVICES/COMPANY: \_\_\_\_\_

December 2018



# AGENT SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 51232125789

Date 4/21/2021

**Agent Billing Information**

Name: Union Engineering  
Address: P.O. Box 1000  
City: Ventura  
State: Ca Zip: 93002  
Phone: 951-553-9624 Fax: \_\_\_\_\_  
Contact: Cindy Potter  
Project: Southern California Edison Downey Substation- 11228  
Brookshire Ave Downey, Ca 90241

**Sunshine Canyon Landfill (5123)**

14747 San Fernando Rd  
Sylmar, Ca 91342  
818-833-6500

**County and State  
of Origin:** \_\_\_\_\_

**Generator Address:** \_\_\_\_\_

Additional Information: \_\_\_\_\_

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"). Acceptable Waste (as defined in Section 6) delivered by Agent.

2. (A) **Rates for Disposal:**

<u>Waste</u>	<u>Disposal Method</u>	<u>Disposal Rate:</u>	<u>Fees / Taxes / Misc.</u>	<u>Transportation</u>
Non-Hazardous Soil	Landfill	_____	_____	N/A

Additional Information: \_\_\_\_\_

\_\_\_\_\_. \*\*Profile expires 04/19/2022\*\*

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of Waived Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

- 1) Terms and Conditions of Agent Special Waste Service Agreement.Doc
- 2) \_\_\_\_\_

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 04/19/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

**THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.**

**AGENT**

spencer ford  
SIGNATURE (AUTHORIZED REPRESENTATIVE)

Spencer Ford, PM  
**Representative**  
(NAME AND TITLE (PLEASE PRINT))

4/22/2021  
Date

**REPUBLIC SERVICES, INC/COMPANY**

\_\_\_\_\_  
SIGNATURE (AUTHORIZED REPRESENTATIVE)

**Edward Antolin, Special Waste Sales**

\_\_\_\_\_  
Date

# Terms and Conditions of Agent Special Waste Service Agreement

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
5. **Waste Accepted at Facility.** Agent represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Acceptable Waste to Company, Agent has provided an Application for such Special Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Agent.
7. **Rights of Refusal/Rejection.** The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.
8. **Limited License to Enter.** This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
9. **Charges and Payment.** Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.
10. **Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Agent.
11. **Driver's Knowledge and Authority.** Agent represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
12. **Indemnification.** Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
13. **Insurance.** Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (where Agent hauling)	\$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage

specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not hereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice to be given to Company. With the exception of workers' compensation, Company shall be shown as additional insured under all of the insurance policies required by this Section 13. The policies required by this Section 13: shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. **Assignment.** Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. **Continuing Compliance.** The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the Special Waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
- (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
- (G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.
- (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

19. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

AGENT: \_\_\_\_\_

REPUBLIC SERVICES/COMPANY: \_\_\_\_\_

December 2018

**CONTRACT DETAILS**

<b>Customer:</b> 000321 - CASH CUSTOMER	<b>Start Date:</b> April 21, 2020	<b>Default Origin:</b> DOWNEY
<b>Contract:</b> 51232125789	<b>Expiration Date:</b> April 19, 2022	<b>Waste Generator:</b> SOUTHERN CALIFORNIA
<b>Type:</b> Inbound	<b>Special Waste:</b> <input checked="" type="checkbox"/>	<b>Apply Load Rate:</b> <input type="checkbox"/>
<b>Sales Rep:</b> ANTOLIN, EDWARD	<b>Permanent:</b> <input type="checkbox"/>	<b>Load Rate Misc. Transaction Code:</b>
<b>Po Number:</b>		<b>Load Rate:</b> (\$0.00)
<b>Cash Only:</b> <input type="checkbox"/>		<b>Service Agreement Effective Date:</b>
<b>Prepaid:</b> <input type="checkbox"/>		<b>Service Agreement Expiration Date:</b>
<b>Collect:</b> <input type="checkbox"/>	<b>Facilities:</b> All Facilities	
<b>Note:</b> SOIL		

**Material:** SW-BENEFICIAL REUSE      **Bill UOM:** TN      **Tracking UOM:** YD      **Leed:**       **Price Type:** Flat Rate

Rate	Tier Formula	Effective Date	Expiration Date	Billed Qty	Tracked Qty	Billed \$	Min \$	Max \$	Ord. Qty	Max Qty
██████		04/21/2020		0.00	0.00	0.00	██████	0.00	0.00	60.00

## Storm, Samantha

---

**From:** Antolin, Edward  
**Sent:** Thursday, April 22, 2021 1:58 PM  
**To:** Storm, Samantha  
**Cc:** Kidd, Kelly - Stockton  
**Subject:** RE: 51232125789 Service Agreement

Pleas use this as my wet sign and Kelly will use my stamp when she returns Monday, thank you.

**Edward Antolin**  
4-22-21



We'll handle it from here.™

**Edward Antolin** Manufacturing and Environmental Services Executive

2531 East 67th Street, Long Beach, CA 90805

[e eantolin@republicservices.com](mailto:ellantolin@republicservices.com)

[o 818-274-9554](tel:818-274-9554)

[f 866-428-5795](tel:866-428-5795) [w republicservices.com](http://w.republicservices.com)

---

**From:** Storm, Samantha <SVega2@republicservices.com>  
**Sent:** Thursday, April 22, 2021 1:03 PM  
**To:** Antolin, Edward <EAntolin@republicservices.com>  
**Subject:** FW: 51232125789 Service Agreement

Hi Ed,

Can you please wet sign, as I still do not have your stamp.

Thanks

**Samantha Storm**  
Special Waste Coordinator  
1145 W. Charter Way  
Stockton, CA 95206  
Republic Services, Inc.  
[SVega2@republicservices.com](mailto:SVega2@republicservices.com)



We'll handle it from here.™

---

**From:** spencer ford <[spencer.uec@gmail.com](mailto:spencer.uec@gmail.com)>  
**Sent:** Thursday, April 22, 2021 12:58 PM  
**To:** Storm, Samantha <[SVega2@republicservices.com](mailto:SVega2@republicservices.com)>; Antolin, Edward <[EAntolin@republicservices.com](mailto:EAntolin@republicservices.com)>  
**Cc:** 'Cidney Potter' <[cpotter.uec@gmail.com](mailto:cpotter.uec@gmail.com)>; 'David Ford' <[dford.uec@gmail.com](mailto:dford.uec@gmail.com)>; [n.bailey@ulmservices.com](mailto:n.bailey@ulmservices.com);  
'Christine Brendle' <[christine.brendle@sce.com](mailto:christine.brendle@sce.com)>; 'Jason Joseph Thomas' <[jason.thomas@sce.com](mailto:jason.thomas@sce.com)>  
**Subject:** RE: 51232125789 Service Agreement

Note that ([spencer.uec@gmail.com](mailto:spencer.uec@gmail.com)) is an external email. Report suspicious emails by clicking on "Report Phishing"

Sorry Samantha, I missed it.

See attached revision.

Thanks

Spencer Ford



Union Engineering Co., Inc.  
PO Box 1000, Ventura, CA 93002  
C: 805.340.0310  
O: 805.644.3373  
F: 805.644.3380  
[Spencer.uec@gmail.com](mailto:Spencer.uec@gmail.com)

---

**From:** Storm, Samantha <[SVega2@republicservices.com](mailto:SVega2@republicservices.com)>  
**Sent:** Thursday, April 22, 2021 12:52 PM  
**To:** spencer ford <[spencer.uec@gmail.com](mailto:spencer.uec@gmail.com)>; Antolin, Edward <[EAntolin@republicservices.com](mailto:EAntolin@republicservices.com)>  
**Cc:** 'Cidney Potter' <[cpotter.uec@gmail.com](mailto:cpotter.uec@gmail.com)>; David Ford <[dford.uec@gmail.com](mailto:dford.uec@gmail.com)>; [n.bailey@ulmservices.com](mailto:n.bailey@ulmservices.com);  
'Christine Brendle' <[christine.brendle@sce.com](mailto:christine.brendle@sce.com)>; 'Jason Joseph Thomas' <[jason.thomas@sce.com](mailto:jason.thomas@sce.com)>  
**Subject:** RE: 51232125789 Service Agreement

Spencer,

Can you please also initial the second page as well?

Thank you.

**Samantha Storm**

Special Waste Coordinator

1145 W. Charter Way

Stockton, CA 95206

Republic Services, Inc.

[SVega2@republicservices.com](mailto:SVega2@republicservices.com)



We'll handle it from here.™



---

**From:** spencer ford <[spencer.uec@gmail.com](mailto:spencer.uec@gmail.com)>

**Sent:** Thursday, April 22, 2021 12:49 PM

**To:** Storm, Samantha <[SVega2@republicservices.com](mailto:SVega2@republicservices.com)>; Antolin, Edward <[EAntolin@republicservices.com](mailto:EAntolin@republicservices.com)>

**Cc:** 'Cidney Potter' <[cpotter.uec@gmail.com](mailto:cpotter.uec@gmail.com)>; David Ford <[dford.uec@gmail.com](mailto:dford.uec@gmail.com)>; [n.bailey@ulmservices.com](mailto:n.bailey@ulmservices.com);

'Christine Brendle' <[christine.brendle@sce.com](mailto:christine.brendle@sce.com)>; 'Jason Joseph Thomas' <[jason.thomas@sce.com](mailto:jason.thomas@sce.com)>

**Subject:** 51232125789 Service Agreement

Note that ([spencer.uec@gmail.com](mailto:spencer.uec@gmail.com)) is an external email. Report suspicious emails by clicking on "Report Phishing"

Samantha-

See attached signed service agreement. Let me know if you need anything else to get the ball rolling on this.

Thanks

Spencer Ford



Union Engineering Co., Inc.

PO Box 1000, Ventura, CA 93002

C: 805.340.0310

O: 805.644.3373

F: 805.644.3380

[Spencer.uec@gmail.com](mailto:Spencer.uec@gmail.com)



## Storm, Samantha

---

**From:** Coyle, Chris  
**Sent:** Friday, April 23, 2021 5:07 PM  
**To:** Storm, Samantha  
**Subject:** Re: 51232125789

I printed and forgot to sign and send back. Approved.

Chris Coyle  
General Manager  
Sunshine Canyon Landfill  
Cell: 480.368.0024

---

**From:** Storm, Samantha <SVega2@republicservices.com>  
**Sent:** Friday, April 23, 2021 4:59:27 PM  
**To:** Coyle, Chris <CCoyle@republicservices.com>  
**Subject:** 51232125789

Hi Chris,

I am just following up with the approval on this one. I sent it to you yesterday for approval but haven't heard back. Just making sure that you did receive it?

Thanks



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51232125789

Expiration Date  
4/19/2022

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: SOUTHERN CALIFORNIA EDISON DOWNEY SUBSTATION

Generator Site Address: 11228 BROOKSHIRE AVE

City: DOWNEY

County:

State: CA

Zip:

Name of Waste: NON HAZARDOUS SOIL GENERATED FROM ONE TIME SITE CLEANUP

Estimated Annual Volume: 40 Cubic Yards

### II. Special Waste Department Decision:

Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Deep Well     Transfer Facility

Problematic Special Waste according to Republic?

Yes     No

If yes, which one?

Approved by Special Waste Review Committee?

Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: 

Date: 4/21/2021

Name (Printed): KEITH DIAMANTI

### III. Facility Decision:

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Name (Printed): \_\_\_\_\_

Date: 4/21/2021

# Special Waste Profile



Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 51232125789

Sales Rep #:

## I. Generator Information

Generator Name: Southern California Edison Downey Substation

Generator Site Address: 11228 Brookshire Ave

City: Downey County: Los Angeles State: California Zip: 90241

State ID/Reg No: CAC003111324 State Approval/Waste Code: 611 NAICS #: 22112

Generator Mailing Address  (if different) P.O. Box 5085

City: Rosemead County: Los Angeles State: California Zip: 91770

Generator Contact Name: Jason J. Thomas Email: jason.thomas@sce.com

Phone Number: 626-302-3105 Ext: Fax Number:

## II. Billing Information

Bill To: Union Engineering Contact Name: Cidney Potter

Billing Address: P.O. Box 1000 Email: cpotter.uec@gmail.com

City: Ventura State: California Zip: 93002 Phone: 951-553-9624

## III. Waste Stream Information

Name of Waste: Non Hazardous Soil generated from one time site cleanup

Process Generating Waste: Substation construction. Soil removal to accomodate equipment relocation.

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Bulk

Estimated Volume: 40 Volume Type: Cubic Yards

Frequency: One-time Event (single project) Disposal Consideration: Landfill

## IV. Representative Sample Certification

No Sample Taken

Sample Taken Type of Sample Composite and Grab

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No

Sample Date: 11/17/20; 1/6/21 and 1/7/21

Sample ID Numbers or SDS: HA1-0.5, HA1-2.0, HA1-3.5, HA1-5.0, HA2-0.5, HA2-2.0, HA2-3.5, HA2-5.0, HA3-0.5, HA3-2.0, HA3-3.5, HA3-5.0, HA1-Comp, HA2-Comp, HA3-Comp C1, C2 & C3.

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1. Soil	0 - 100
2. Concrete	0 - 50
3.	
4.	
5.	

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.**

## RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?  Yes  No
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.  Yes  No

## Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture?  Yes  No
- Does the waste contain sulfur or sulfur by-products?  Yes  No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- If yes to the above question, please provide clarification.

# Special Waste Profile



## VI. Certification

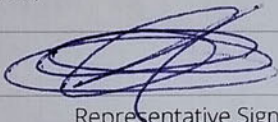
*I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.*

*I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.*

*I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.*

*If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.*

*I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.*

Jason J. Thomas	Technical Specialist III	Southern California Edison
Authorized Representative Name (Printed)	Title (Printed)	Company Name
		4/19/21
Representative Signature		Date

# Waste Characterization Investigation Report

Project Name: Downey Sub CB Replacements Report Date: 12/8/2020  
 Report Requester: Karlie Garrity SAP/WO Number: 903098999  
 WCI Contact: Ryan Castillo Phone: (626) 656-0453  
 Field Env. Advisor: Michael Coppola Phone: (310) 270-6506  
 Project Description: Replace 4 kV Circuit Breakers at Positions 8,9, &11

Waste with Special Handling Requirements? Yes  No

Material	Hazardous	PCB Waste (>50 ppm)	Non-Hazardous	Eligible for Recycling?	Area	SCE-Approved Disposal Facility
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Disposal - Sunshine Canyon Landfill 14747 San Fernando Road, Sylmar, CA 91342 Reach out to WCI contact for scheduling  Disposal - Simi Valley Landfill 2801 Madera Road, Simi Valley, CA 93065 Reach out to WCI contact for scheduling
Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Disposal - Sunshine Canyon Landfill 14747 San Fernando Road, Sylmar, CA 91342 Reach out to WCI contact for scheduling  Disposal - Simi Valley Landfill 2801 Madera Road, Simi Valley, CA 93065 Reach out to WCI contact for scheduling
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Attachments:

- A. Site plan showing sample locations
- C. Photos
- B. Laboratory data tables
- D. Laboratory analytical report

**Notes:**

Ensure disposal facility agrees to accept waste prior to shipping! Coordinate with WCI contact if needed.

If the contractor would like to use a disposal facility not recommended on this cover page, they must get written approval from Field Env. Advisor or WCI contact.

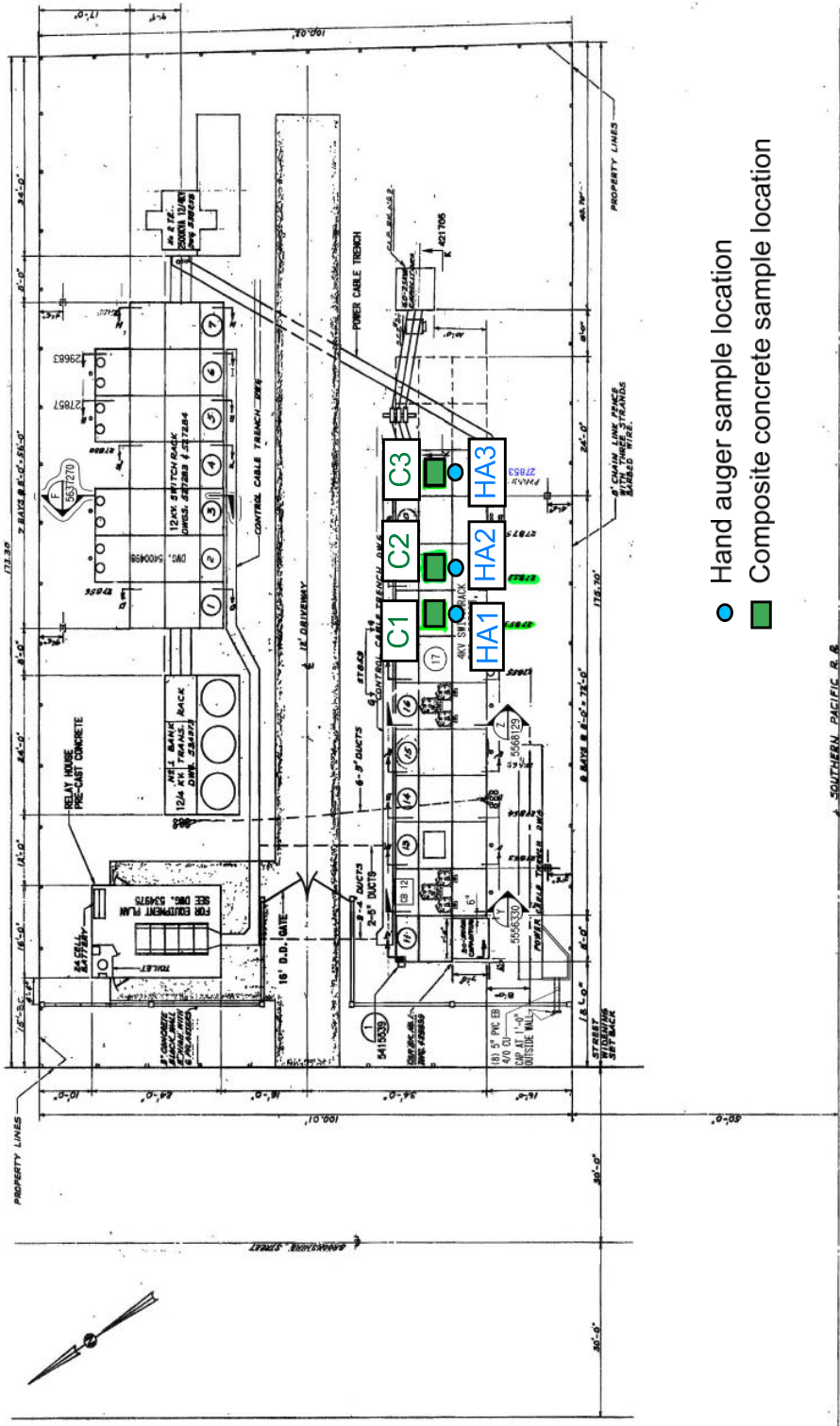
Soil is non-hazardous but arsenic impacted and is not eligible for offsite recycling. It is recommended that this soil be reused onsite through the use of the Substation Soil Backfill Checklist, which can be obtained from the listed FEA. Soil cannot be reused onsite without this document. If onsite reuse is not possible then this soil must be transported to one of the recommended disposal facilities. Concrete has elevated TPH and is not eligible for recycling.

If sending waste to a facility listed as 'disposal', reach out to the WCI contact for scheduling assistance in gaining entry to one of the disposal facilities listed above at least ONE WEEK prior to shipping waste. Delays in this may cause delays in shipping.

Use of facilities outside of those referenced on this page requires written approval from the WCI contact or listed FEA.

ATTACHMENT A

SITE PLAN SHOWING SAMPLE LOCATIONS



- Hand auger sample location
- Composite concrete sample location

DATE	BY	DESCRIPTION
11-22-08	10/1000	9 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
10-22-08	10/1000	8 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	7 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	6 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	5 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	4 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	3 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	2 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS
08-22-08	10/1000	1 T AS BUILT, ADDED 4KV BUS PTS & 2-5" CONDUITS

DATE	APPROVED	O.K.	CHECKED	MADE	LD.NA.	REVISIONS
11-22-08						
10-22-08						
08-22-08						
08-22-08						
08-22-08						
08-22-08						
08-22-08						
08-22-08						
08-22-08						
08-22-08						

DATE	APPROVED	O.K.	CHECKED	MADE	LD.NA.	REVISIONS
11-22-08						
10-22-08						
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DATE	APPROVED	O.K.	CHECKED	MADE	LD.NA.	REVISIONS
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DATE	APPROVED	O.K.	CHECKED	MADE	LD.NA.	REVISIONS
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08-22-08						
08-22-08						

LOCATION: DOWNEY, SUBSTATION  
 EQUIPMENT  
 PLOT PLAN  
 SOUTHERN CALIFORNIA EDISON COMPANY LTD.  
 LOS ANGELES, CALIF.  
 SCALE: 1/4" = 10'-0"

REVISE ELECTRONICALLY ONLY

419795-13

FIGURE 1  
 PLOT PLAN SHOWING SAMPLE LOCATIONS  
 DOWNEY SUBSTATION



ATTACHMENT B  
LABORATORY DATA TABLES

**Attachment B - Laboratory Data Table**

**Downey Substation**

11228 Brookshire Ave., Downey, CA (GPS Coordinates: 33.93740, -118.13010)

Sample Identification:	C1	C2	C3	HA1-0.5'	HA1-2.0'	HA1-Comp	Screening Levels	Waste Screening Limits		
	Concrete	Concrete	Concrete	Soil	Soil	Soil		TTLc	STLC x10	TCLP x20
Sample Matrix:	Concrete	Concrete	Concrete	Soil	Soil	Soil				
Date Sampled:	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020				
Sample Depth (ft):	Surface	Surface	Surface	0.5	2.0	**				
<b>TPH by EPA 8015G/D</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH Purgeable (C4 to C12)	-	<10.0	<10.0	-	-	<10.0	110	-	-	-
TPH Extractable (C13 to C22)	-	1,550	917	-	-	<10.0	2,500	-	-	-
TPH as Heavy Hydrocarbons (C23 to C40)	-	2,240	4,890	-	-	<100	2,500	-	-	-
<b>Title 22 Metals by EPA 6010B/7000</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	-	-	-	-	-	<2	470	500	150	-
Arsenic	-	-	-	-	-	46.6	12	500	50	100
Barium	-	-	-	-	-	125	220,000	10,000	1,000	2,000
Beryllium	-	-	-	-	-	<1	210*	75	7.5	-
Cadmium	-	-	-	-	-	<1	7.3*	100	10	20
Chromium	-	-	-	-	-	21.3	170,000*	2,500	50	100
Cobalt	-	-	-	-	-	11.6	350	8,000	800	-
Copper	-	-	-	-	-	107	47,000	2,500	250	-
Lead	-	-	-	-	-	26.4	320*	1,000	50	100
Mercury	-	-	-	-	-	<0.1	4.5*	20	2	4
Molybdenum	-	-	-	-	-	<1	5,800	3,500	3,500	-
Nickel	-	-	-	-	-	17.2	3,100*	2,000	200	-
Selenium	-	-	-	-	-	<2	5,800	100	10	20
Silver	-	-	-	-	-	<1	1,500*	500	50	100
Thallium	-	-	-	-	-	<2	12	700	70	-
Vanadium	-	-	-	-	-	43.0	1,000*	2,400	240	-
Zinc	-	-	-	-	-	189	350,000	5,000	2,500	-
<b>PCBs by EPA 8082</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016 (PCB-1016)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1221 (PCB-1221)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1232 (PCB-1232)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1242 (PCB-1242)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1248 (PCB-1248)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1254 (PCB-1254)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1260 (PCB-1260)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1262 (PCB-1262)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1268 (PCB-1268)	<1.00	<1.00	<1.00	<1.00	<1.00	-	1.0	50	50	-
<b>VOCs by EPA 8260B</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acetone	-	-	<0.025	-	-	-	-	-	-	-
Benzene	-	-	<0.001	-	-	-	-	-	-	10
Bromobenzene (Phenyl bromide)	-	-	<0.005	-	-	-	-	-	-	-
Bromochloromethane	-	-	<0.005	-	-	-	-	-	-	-
Bromodichloromethane	-	-	<0.005	-	-	-	-	-	-	-
Bromoform (Tribromomethane)	-	-	<0.025	-	-	-	-	-	-	-
Bromomethane (Methyl bromide)	-	-	<0.015	-	-	-	-	-	-	-
2-Butanone (MEK)	-	-	<0.025	-	-	-	-	-	-	-
n-Butylbenzene	-	-	<0.005	-	-	-	-	-	-	-
sec-Butylbenzene	-	-	<0.005	-	-	-	-	-	-	-
tert-Butylbenzene	-	-	<0.005	-	-	-	-	-	-	-
Carbon Disulfide	-	-	<0.025	-	-	-	-	-	-	-
Carbon tetrachloride	-	-	<0.005	-	-	-	-	-	-	10
Chlorobenzene	-	-	<0.005	-	-	-	-	-	-	2,000
Chloroethane	-	-	<0.015	-	-	-	-	-	-	-
2-Chloroethyl vinyl ether	-	-	<0.050	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	-	-	<0.005	-	-	-	-	-	-	120
Chloromethane (Methyl chloride)	-	-	<0.015	-	-	-	-	-	-	-
2-Chlorotoluene	-	-	<0.005	-	-	-	-	-	-	-
4-Chlorotoluene	-	-	<0.005	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	-	-	<0.005	-	-	-	-	-	-	-
Dibromochloromethane	-	-	<0.005	-	-	-	-	-	-	-
1,2-Dibromoethane (EDB)	-	-	<0.005	-	-	-	-	-	-	-
Dibromomethane	-	-	<0.005	-	-	-	-	-	-	-
1,2-Dichlorobenzene	-	-	<0.005	-	-	-	-	-	-	-
1,3-Dichlorobenzene	-	-	<0.005	-	-	-	-	-	-	-
1,4-Dichlorobenzene	-	-	<0.005	-	-	-	-	-	-	150
Dichlorodifluoromethane	-	-	<0.015	-	-	-	-	-	-	-
1,1-Dichloroethane	-	-	<0.005	-	-	-	-	-	-	-
1,2-Dichloroethane (EDC)	-	-	<0.005	-	-	-	-	-	-	10
1,1-Dichloroethene	-	-	<0.005	-	-	-	-	-	-	14
cis-1,2-Dichloroethene	-	-	<0.005	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	-	-	<0.005	-	-	-	-	-	-	-
1,2-Dichloropropane	-	-	<0.005	-	-	-	-	-	-	-
1,3-Dichloropropane	-	-	<0.005	-	-	-	-	-	-	-
2,2-Dichloropropane	-	-	<0.005	-	-	-	-	-	-	-
1,1-Dichloropropene	-	-	<0.005	-	-	-	-	-	-	-

**Attachment B - Laboratory Data Table  
Downey Substation**

11228 Brookshire Ave., Downey, CA (GPS Coordinates: 33.93740, -118.13010)

Sample Identification:	C1	C2	C3	HA1-0.5'	HA1-2.0'	HA1-Comp	Screening Levels	Waste Screening Limits		
	Concrete	Concrete	Concrete	Soil	Soil	Soil		TTLc	STLC x10	TCLP x20
Sample Matrix:	Concrete	Concrete	Concrete	Soil	Soil	Soil				
Date Sampled:	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020				
Sample Depth (ft):	Surface	Surface	Surface	0.5	2.0	**				
cis-1,3-Dichloropropene	-	-	<0.005	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	-	-	<0.005	-	-	-	-	-	-	-
Ethylbenzene	-	-	<0.001	-	-	-	-	-	-	-
Hexachlorobutadiene	-	-	<0.015	-	-	-	-	-	-	-
2-Hexanone	-	-	<0.025	-	-	-	-	-	-	-
Iodomethane	-	-	<0.005	-	-	-	-	-	-	-
Isopropylbenzene	-	-	<0.005	-	-	-	-	-	-	-
p-Isopropyltoluene	-	-	<0.005	-	-	-	-	-	-	-
4-Methyl-2-pentanone (MIBK)	-	-	<0.025	-	-	-	-	-	-	-
Methyl-tert-butyl ether (MTBE)	-	-	<0.002	-	-	-	-	-	-	-
Methylene chloride (DCM)	-	-	<0.025	-	-	-	-	-	-	-
Naphthalene	-	-	<0.005	-	-	-	-	-	-	-
n-Propylbenzene	-	-	<0.005	-	-	-	-	-	-	-
Styrene	-	-	<0.005	-	-	-	-	-	-	-
1,1,1,2-Tetrachloroethane	-	-	<0.005	-	-	-	-	-	-	-
1,1,2,2-Tetrachloroethane	-	-	<0.005	-	-	-	-	-	-	-
Tetrachloroethane	-	-	<0.002	-	-	-	-	-	-	14
Toluene (Methyl benzene)	-	-	<0.001	-	-	-	-	-	-	-
1,2,3-Trichlorobenzene	-	-	<0.005	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	-	-	<0.005	-	-	-	-	-	-	-
1,1,1-Trichloroethane	-	-	<0.005	-	-	-	-	-	-	-
1,1,2-Trichloroethane	-	-	<0.005	-	-	-	-	-	-	-
Trichloroethene	-	-	<0.015	-	-	-	-	-	-	10
Trichlorofluoromethane	-	-	<0.005	-	-	-	-	-	-	-
1,2,3-Trichloropropane	-	-	<0.001	-	-	-	-	-	-	-
1,2,4-Trimethylbenzene	-	-	<0.005	-	-	-	-	-	-	-
1,3,5-Trimethylbenzene	-	-	<0.005	-	-	-	-	-	-	-
Vinyl Acetate	-	-	<0.025	-	-	-	-	-	-	-
Vinyl chloride (Chloroethene)	-	-	<0.005	-	-	-	-	-	-	4
o-Xylene	-	-	<0.001	-	-	-	-	-	-	-
m,p-Xylenes	-	-	<0.001	-	-	-	-	-	-	-

**NOTES:**

mg/kg: Milligrams per kilogram (parts per million)  
 µg/kg: Micrograms per kilogram (parts per billion)  
 <: Not detected at or above the indicated laboratory practical quantitation limit (PQL)  
 -: Not analyzed or not available  
 PCB: Polychlorinated Biphenyls  
 STLC: Soluble Threshold Limit Concentration  
 TCLP: Toxicity Characteristic Leaching Procedure  
 TPH: Total Petroleum Hydrocarbons  
 TTLc: Total Threshold Limit Concentration  
 VOCs: Volatile Organic Compounds

Screening Level Exceedance	
Waste Screening Limit Exceedance	
Hazardous Waste	

\*\* - This is a composite sample created in the laboratory by homogenizing aliquots of equal size from discrete samples collected at 0.5, 2.0, 3.5 and 5.0 feet below ground surface.

Screening Levels:  
 TPH: EPA Region 9 Industrial Regional Screening Levels (RSLs), lowest value chosen between Aliphatic/Aromatic  
 Metals: Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Industrial Human Health Risk Assessment (HHRA) values denoted by \*, all other values EPA Region 9 RSLs  
 Arsenic: DTSC Regional Background Concentration  
 PCBs: WCI Program screening level

## Attachment B - Laboratory Data Table

### Downey Substation

11228 Brookshire Ave., Downey, CA (GPS Coordinates: 33.93740, -118.13010)

Sample Identification:	HA2-0.5'	HA2-2.0'	HA2-Comp	HA3-0.5'	HA3-2.0'	HA3-Comp	Screening Levels	Waste Screening Limits		
	Soil	Soil	Soil	Soil	Soil	Soil		TTLc	STLC x10	TCLP x20
Sample Matrix:	Soil	Soil	Soil	Soil	Soil	Soil				
Date Sampled:	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020	11/17/2020				
Sample Depth (ft):	0.5	2.0	**	0.5	2.0	**				
<b>TPH by EPA 8015G/D</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
TPH Purgeable (C4 to C12)	-	-	<10.0	-	-	<10.0	110	-	-	-
TPH Extractable (C13 to C22)	-	-	<10.0	-	-	<10.0	2,500	-	-	-
TPH as Heavy Hydrocarbons (C23 to C40)	-	-	<100	-	-	<100	2,500	-	-	-
<b>Title 22 Metals by EPA 6010B/7000</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Antimony	-	-	<2	-	-	2.68	470	500	150	-
Arsenic	-	-	23.2	-	-	69.2	12	500	50	100
Barium	-	-	140	-	-	134	220,000	10,000	1,000	2,000
Beryllium	-	-	<1	-	-	<1	210*	75	7.5	-
Cadmium	-	-	<1	-	-	<1	7.3*	100	10	20
Chromium	-	-	21.8	-	-	23.4	170,000*	2,500	50	100
Cobalt	-	-	11.9	-	-	13.4	350	8,000	800	-
Copper	-	-	47.5	-	-	48.5	47,000	2,500	250	-
Lead	-	-	27.3	-	-	21.9	320*	1,000	50	100
Mercury	-	-	<0.1	-	-	<0.1	4.5*	20	2	4
Molybdenum	-	-	<1	-	-	<1	5,800	3,500	3,500	-
Nickel	-	-	16.8	-	-	18.8	3,100*	2,000	200	-
Selenium	-	-	<2	-	-	<2	5,800	100	10	20
Silver	-	-	<1	-	-	<1	1,500*	500	50	100
Thallium	-	-	<2	-	-	<2	12	700	70	-
Vanadium	-	-	44.3	-	-	45.5	1,000*	2,400	240	-
Zinc	-	-	221	-	-	213	350,000	5,000	2,500	-
<b>STLC by EPA 6010B</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>	<b>mg/L</b>
Arsenic	-	-	-	-	-	1.30	-	-	-	-
<b>PCBs by EPA 8082</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Aroclor-1016 (PCB-1016)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1221 (PCB-1221)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1232 (PCB-1232)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1242 (PCB-1242)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1248 (PCB-1248)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1254 (PCB-1254)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1260 (PCB-1260)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1262 (PCB-1262)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-
Aroclor-1268 (PCB-1268)	<1.00	<1.00	-	<1.00	<1.00	-	1.0	50	50	-

**NOTES:**

mg/kg: Milligrams per kilogram (parts per million)  
 µg/kg: Micrograms per kilogram (parts per billion)  
 <: Not detected at or above the indicated laboratory practical quantitation limit (PQL)  
 -: Not analyzed or not available  
 PCB: Polychlorinated Biphenyls  
 STLC: Soluble Threshold Limit Concentration  
 TCLP: Toxicity Characteristic Leaching Procedure  
 TPH: Total Petroleum Hydrocarbons  
 TTLc: Total Threshold Limit Concentration  
 VOCs: Volatile Organic Compounds

Screening Level Exceedance	
Waste Screening Limit Exceedance	
Hazardous Waste	

\*\* - This is a composite sample created in the laboratory by homogenizing aliquots of equal size from discrete samples collected at 0.5, 2.0, 3.5 and 5.0 feet below ground surface.

Screening Levels:  
 TPH: EPA Region 9 Industrial Regional Screening Levels (RSLs), lowest value chosen between Aliphatic/Aromatic  
 Metals: Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Industrial Human Health Risk Assessment (HHRA) values denoted by \*, all other values EPA Region 9 RSLs  
 Arsenic: DTSC Regional Background Concentration  
 PCBs: WCI Program screening level

ATTACHMENT C

PHOTOS



PHOTO 1: HAND AUGER SAMPLE LOCATION HA1  
DOWNEY SUBSTATION, DOWNEY, CA



PHOTO 2: HAND AUGER SAMPLE LOCATION HA3  
DOWNEY SUBSTATION, DOWNEY, CA





PHOTO 3: COMPOSITE CONCRETE SAMPLE LOCATION C1  
DOWNEY SUBSTATION, DOWNEY, CA

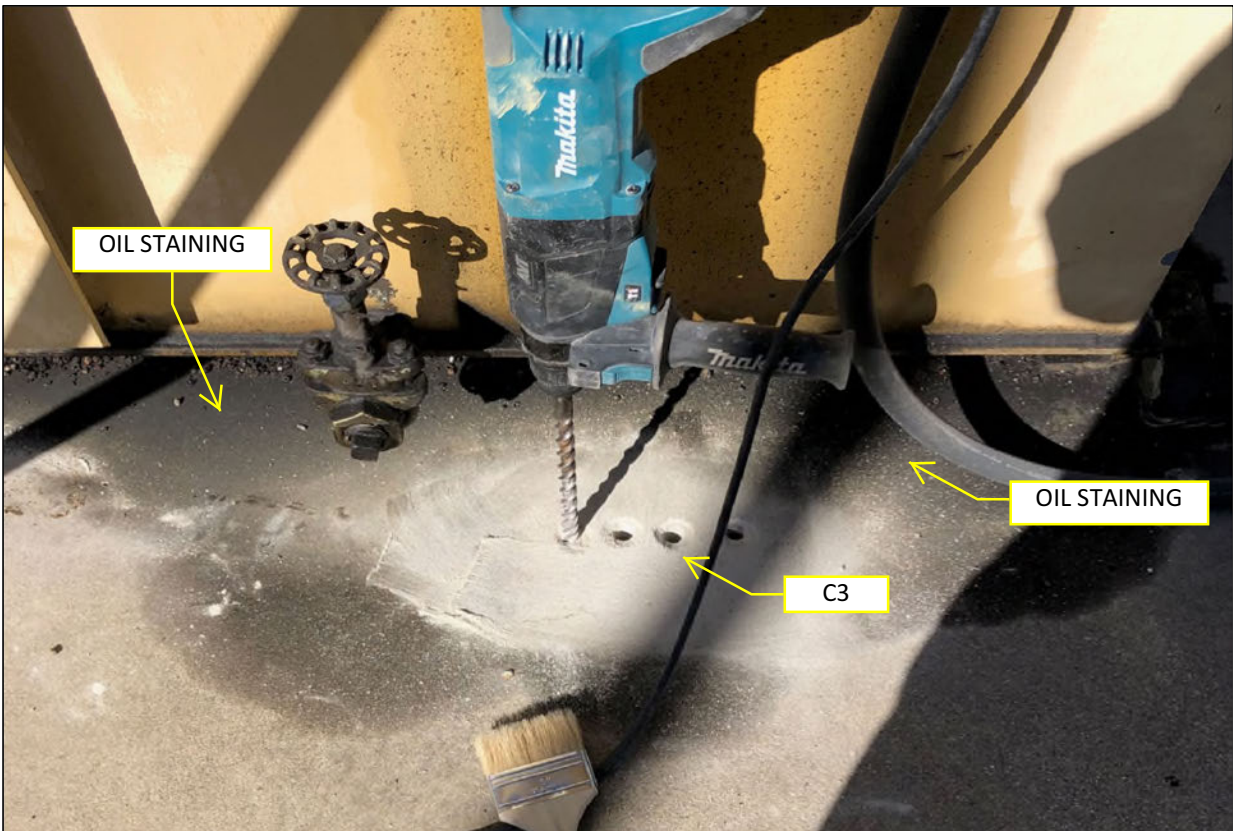


PHOTO 4: COMPOSITE CONCRETE SAMPLE LOCATION C3 SHOWING OIL STAINING  
DOWNEY SUBSTATION, DOWNEY, CA



ATTACHMENT D

LABORATORY ANALYTICAL REPORT





## AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181  
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com

December 02, 2020

AETL Job No: BBK0280  
Received Date: 11/18/2020  
Project Number: IO# 346292

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768  
Telephone: (909) 274-1646

Attention: Ryan Castillo

Project Name: Downey Sub CB Replacment  
Site: Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Christine Novshadayan  
Project Manager

Approved By:

Jim Lin  
Project Manager

# Table of Contents

Client Project Name: WCI- Northstar (IO# 346292)  
Work Order Number: BBK0280

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
--	--	--

## Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 3.3 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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**CHAIN OF CUSTODY RECORD**

117813

AETL JOB No. **BBK0280**

Page 1 of 2

COMPANY: **Norstar Environmental Remediation**  
 COMPANY ADDRESS: **26225 Enterprise Ct., Lake Forest, CA**  
 PROJECT NAME: **Downey Sub CB Replacements**  
 SITE NAME AND ADDRESS: **Downey Sub 1178 Brookshire Ave., Downey, CA**  
 PROJECT MANAGER: **Bob Tweidt**  
 S/C: **Pyan Castillo**  
 PHONE: **(949) 580-2800**  
 EMAIL: **rob.tweidt@norstar.com**  
 PROJECT #: **20# 346292**  
 PO #:

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	HA1-0.5	11/17/20	0740	Soil	80Z	Ice
2	HA1-2.0		0750			
3	HA1-3.5		0755			
4	HA1-5.0		0800			
5	HA2-0.5		0805			
6	HA2-2.0		0810			
7	HA2-3.5		0815			
8	HA2-5.0		0825			
9	HA3-0.5		0830			
10	HA3-2.0		0835			
11	HA3-3.5		0840			
12	HA3-5.0		0845			
13	HA1-Comp					
14	HA2-Comp					
15	HA3-Comp					

**ANALYSIS REQUESTED**

PCBs (EPA 8082)  Moisture Content  TPH (EPA 8015 B)  Title 22 Metal

**TEST INSTRUCTIONS & COMMENTS**

Report PCBs in dry weight  
 Composites consist of all  
 Sampling depths from an  
 individual boring  
 PCL = 1.0 mg/kg

**RELINQUISHED BY:**

1. **SAMPLER:** Signature: *Mike DeKort*, Printed Name: **MIKE DEKORT**, Date: **11-18-20**, Time: **1030**  
 2. **LABORATORY:** Signature: *[Signature]*, Printed Name: **[Name]**, Date: **11-18-20**, Time: **1430**  
 3. **RECEIVED BY:** Signature: *[Signature]*, Printed Name: **[Name]**, Date: **11-18-20**, Time: **1430**

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

TOTAL NUMBER OF CONTAINERS: **12**

**TURN AROUND TIME**

NORMAL  SAME DAY RUSH  NEXT DAY RUSH  3 DAYS RUSH  4 DAYS RUSH

**DATA DELIVERABLE REQUIRED**

HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

**DISTRIBUTION:** WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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**CHAIN OF CUSTODY RECORD**

117812

A KYZER LABS COMPANY

COMPANY PROJECT MANAGER Rob Tweed  
Northstar Environmental Remediation SCE: Phan Castillo  
 COMPANY ADDRESS PHONE (999) 580-2800  
 EMAIL rob.tweed@northstar.com  
 PROJECT NAME PROJECT #  
Downey Sub CB Replacements 10# 346292  
 PO #  
 SITE NAME AND ADDRESS  
Downey Sub  
11228 Brookshire Ave., Downey, CA

AETL JOB No. BBK0280 Page 2 of 2

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED		TEST INSTRUCTIONS & COMMENTS
							Moisture Content	TPH-mod 8015B	
1	C1	11/17/20	0915	Concrete	602	Ice	X	X	See Page 1 of 2
2	C2		0955				X	X	
3	C3		1035				X	X	
4	C2		0955				X	X	
5	C3		1035				X	X	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									

**TOTAL NUMBER OF CONTAINERS:** 5

**RELINQUISHED BY SAMPLER:** 1. Signature: Mike DeLeon Printed Name: Mike DeLeon Date: 11-18-20 Time: 10:30  
 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

**TURN AROUND TIME**

**DATA DELIVERABLE REQUIRED**

NORMAL  SAME DAY RUSH  NEXT DAY RUSH

2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH

HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY) \_\_\_\_\_

**RELINQUISHED BY LABORATORY:** 1. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: 11-18-20 Time: 14:30

**RECEIVED BY:** Signature: Phan Castillo Printed Name: Phan Castillo Date: 11-18-20 Time: 14:30

**RECEIVED BY:** Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**RECEIVED BY:** Signature: \_\_\_\_\_ Printed Name: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

TRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



A KYZER LABS COMPANY

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2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

## COOLER RECEIPT FORM

Client Name: <u>EDISON</u>				
Project Name:				
AETL Job Number: <u>BBK0280</u>				
Date Received: <u>11/18/2020</u>		Received by: <u>Sargis Pireh</u>		
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSL <input type="checkbox"/> FedEx <input type="checkbox"/> UPS				
<input type="checkbox"/> Others:				
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>  </u> ) <input type="checkbox"/> Other (Specify):				
Inside temperature of shipping container No 1: <u>3.3°C</u> , No 2:   , No 3:				
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):				
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice				
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH, <input type="checkbox"/> NaHSO <sub>4</sub>				
<input type="checkbox"/> Other (Specify):				
	Yes	No*	N/A	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>			
2. Are Sample labels legible & indelible ink?	<input checked="" type="checkbox"/>			
3. Do samples match the COC?	<input checked="" type="checkbox"/>			
4. Are the required analyses clear?	<input checked="" type="checkbox"/>			
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>			
6. Does cooler or samples have custody seal(s)?			<u>N/A</u>	
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>			
8. Are samples preserved?	<input checked="" type="checkbox"/>			
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>			
10. Are the VOAs free of headspace?			<u>N/A</u>	
11. Are the jars free of headspace?	<input checked="" type="checkbox"/>			
* = see note below. N/A = Not Applicable				

**PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.**

**\*Explain all "No" answers for above questions:**

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# AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181  
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com

Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.  
Results for EPA Method 8082 has been reported based on dry weight.

No analytical non-conformances were encountered.  
Qualifiers are noted in the report.

Title 22 Metals analyses were performed by Positive Lab Services.



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## Samples Received

**AETL received the following samples on 11/18/2020 with the following specifications**

Project Name: Downey Substation			
Site: 11228 Brookshire Ave.			
Downey, CA 90241			
<b>Client ID</b>			<b>Sample Date</b>
HA1-0.5'			11/17/2020 7:40
<b>Lab ID</b>	<b>Matrix</b>		<b>Quantity of Containers</b>
BBK0280-01	Soil		2
<b>Analysis</b>	<b>Units</b>		<b>TAT</b>
ASTM D2216	% wt		5
EPA 8082	mg/kg		5
<b>Client ID</b>			<b>Sample Date</b>
HA1-2.0'			11/17/2020 7:50
<b>Lab ID</b>	<b>Matrix</b>		<b>Quantity of Containers</b>
BBK0280-02	Soil		2
<b>Analysis</b>	<b>Units</b>		<b>TAT</b>
ASTM D2216	% wt		5
EPA 8082	mg/kg		5
<b>Client ID</b>			<b>Sample Date</b>
HA2-0.5'			11/17/2020 8:05
<b>Lab ID</b>	<b>Matrix</b>		<b>Quantity of Containers</b>
BBK0280-05	Soil		2
<b>Analysis</b>	<b>Units</b>		<b>TAT</b>
ASTM D2216	% wt		5
EPA 8082	mg/kg		5





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## Samples Received (Continued)

**AETL received the following samples on 11/18/2020 with the following specifications**

Project Name: Downey Substation Site: 11228 Brookshire Ave. Downey, CA 90241		
<b>Client ID</b> HA2-2.0'		<b>Sample Date</b> 11/17/2020 8:10
<b>Lab ID</b> BBK0280-06	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 2
<b>Analysis</b> ASTM D2216 EPA 8082	<b>Units</b> % wt mg/kg	<b>TAT</b> 5 5
<b>Client ID</b> HA3-0.5'		<b>Sample Date</b> 11/17/2020 8:30
<b>Lab ID</b> BBK0280-09	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 2
<b>Analysis</b> ASTM D2216 EPA 8082	<b>Units</b> % wt mg/kg	<b>TAT</b> 5 5
<b>Client ID</b> HA3-2.0'		<b>Sample Date</b> 11/17/2020 8:35
<b>Lab ID</b> BBK0280-10	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 2
<b>Analysis</b> ASTM D2216 EPA 8082	<b>Units</b> % wt mg/kg	<b>TAT</b> 5 5



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## Samples Received (Continued)

**AETL received the following samples on 11/18/2020 with the following specifications**

Project Name: Downey Substation  
 Site: 11228 Brookshire Ave.  
 Downey, CA 90241

**Client ID** HA1-Comp **Sample Date** 11/17/2020 0:00

**Lab ID** BBK0280-13 **Matrix** Soil **Quantity of Containers** 2

Analysis	Units	TAT
EPA 6010B	mg/kg	5
EPA 6020	mg/kg	5
EPA 8015B TPH DRO/OF	mg/kg	5
EPA 8015B TPH GRO	mg/kg	5
Mercury_7471As	mg/kg	
Metals_6010B CAM	mg/kg	

**Client ID** HA2-Comp **Sample Date** 11/17/2020 0:00

**Lab ID** BBK0280-14 **Matrix** Soil **Quantity of Containers** 2

Analysis	Units	TAT
EPA 6010B	mg/kg	5
EPA 6020	mg/kg	5
EPA 8015B TPH DRO/OF	mg/kg	5
EPA 8015B TPH GRO	mg/kg	5
Mercury_7471As	mg/kg	
Metals_6010B CAM	mg/kg	

**Client ID** HA3-Comp **Sample Date** 11/17/2020 0:00

**Lab ID** BBK0280-15 **Matrix** Soil **Quantity of Containers** 2

Analysis	Units	TAT
EPA 6010B	mg/kg	5
EPA 6020	mg/kg	5



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## Samples Received (Continued)

**AETL received the following samples on 11/18/2020 with the following specifications**

Project Name: Downey Substation Site: 11228 Brookshire Ave. Downey, CA 90241		
EPA 8015B TPH DRO/OF	mg/kg	5
EPA 8015B TPH GRO	mg/kg	5
Mercury_7471As	mg/kg	
Metals_6010B CAM	mg/kg	
<b>Client ID</b> C1		<b>Sample Date</b> 11/17/2020 9:15
<b>Lab ID</b> BBK0280-16	<b>Matrix</b> Concrete	<b>Quantity of Containers</b> 2
<b>Analysis</b>	<b>Units</b>	<b>TAT</b>
ASTM D2216	% wt	5
EPA 8082	mg/kg	5
<b>Client ID</b> C2		<b>Sample Date</b> 11/17/2020 9:55
<b>Lab ID</b> BBK0280-17	<b>Matrix</b> Concrete	<b>Quantity of Containers</b> 3
<b>Analysis</b>	<b>Units</b>	<b>TAT</b>
ASTM D2216	% wt	5
EPA 8015B TPH DRO/OF	mg/kg	5
EPA 8015B TPH GRO	mg/kg	5
EPA 8082	mg/kg	5
<b>Client ID</b> C3		<b>Sample Date</b> 11/17/2020 10:35
<b>Lab ID</b> BBK0280-18	<b>Matrix</b> Concrete	<b>Quantity of Containers</b> 3
<b>Analysis</b>	<b>Units</b>	<b>TAT</b>
ASTM D2216	% wt	5
EPA 8015B TPH DRO/OF	mg/kg	5



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## Samples Received (Continued)

**AETL received the following samples on 11/18/2020 with the following specifications**

Project Name: Downey Substation  
Site: 11228 Brookshire Ave.  
Downey, CA 90241

EPA 8015B TPH GRO	mg/kg	5
EPA 8082	mg/kg	5

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**Total Number of Samples received: 12**



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## Positive Hits Summary

Lab ID	Client ID				Received
<b>BBK0280-01</b>	HA1-0.5'				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	5.85		% wt	11/20/2020 14:12
<b>BBK0280-02</b>	HA1-2.0'				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	5.77		% wt	11/20/2020 14:12
<b>BBK0280-05</b>	HA2-0.5'				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	7.02		% wt	11/20/2020 14:12
<b>BBK0280-06</b>	HA2-2.0'				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	9.62		% wt	11/20/2020 14:12
<b>BBK0280-09</b>	HA3-0.5'				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	7.92		% wt	11/20/2020 14:12
<b>BBK0280-10</b>	HA3-2.0'				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	11.4		% wt	11/20/2020 14:12
<b>BBK0280-13</b>	HA1-Comp				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
Metals_6010B CAM	Arsenic	46.6		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Barium	125		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Chromium	21.3		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Cobalt	11.6		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Copper	107		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Lead	26.4		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Nickel	17.2		mg/kg	12/02/2020 12:37
Metals_6010B CAM	Vanadium	43.0		mg/kg	12/02/2020 12:37

*The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety without written approval of the laboratory.*



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## Positive Hits Summary (Continued)

Lab ID	Client ID				Received
<b>BBK0280-13</b>	HA1-Comp				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
Metals_6010B CAM	Zinc	189		mg/kg	12/02/2020 12:37
<b>BBK0280-14</b>	HA2-Comp				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
Metals_6010B CAM	Arsenic	23.2		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Barium	140		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Chromium	21.8		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Cobalt	11.9		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Copper	47.5		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Lead	27.3		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Nickel	16.8		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Vanadium	44.3		mg/kg	12/02/2020 12:50
Metals_6010B CAM	Zinc	221		mg/kg	12/02/2020 12:50
<b>BBK0280-15</b>	HA3-Comp				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
Metals_6010B CAM	Antimony	2.68		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Arsenic	69.2		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Barium	134		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Chromium	23.4		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Cobalt	13.4		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Copper	48.5		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Lead	21.9		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Nickel	18.8		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Vanadium	45.5		mg/kg	12/02/2020 13:03
Metals_6010B CAM	Zinc	213		mg/kg	12/02/2020 13:03
<b>BBK0280-16</b>	C1				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	1.14		% wt	11/20/2020 14:12
<b>BBK0280-17</b>	C2				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8015B TPH DRO/ORO	TPH as Diesel (C13-C22)	1550		mg/kg	11/24/2020 11:41



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## Positive Hits Summary (Continued)

Lab ID	Client ID				Received
<b>BBK0280-17</b>	C2				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8015B TPH DRO/ORO	TPH as Heavy Hydrocarbons (C23-40)	2240		mg/kg	11/24/2020 11:41
EPA 8015B TPH DRO/ORO	TPH Total as Diesel and Heavy HC (C13-C40)	3790		mg/kg	11/24/2020 11:41
ASTM D2216	Moisture Content	1.81		% wt	11/20/2020 14:12
Lab ID	Client ID				Received
<b>BBK0280-18</b>	C3				11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8015B TPH DRO/ORO	TPH as Diesel (C13-C22)	917		mg/kg	11/24/2020 14:47
EPA 8015B TPH DRO/ORO	TPH as Heavy Hydrocarbons (C23-40)	4890		mg/kg	11/24/2020 14:47
EPA 8015B TPH DRO/ORO	TPH Total as Diesel and Heavy HC (C13-C40)	5800		mg/kg	11/24/2020 14:47
ASTM D2216	Moisture Content	2.30		% wt	11/23/2020 09:42



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## Analytical Results

**Client ID:** HA1-0.5'  
**Lab ID:** BBK0280-01 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Recovery		Acceptance Criteria								
Surrogate: Decachlorobiphenyl	57.8%			30-150		11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene	119%			30-150		11/23/20 08:29	11/23/20 11:12	B0K0620	ATS	3550B

### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	5.85		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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## Analytical Results

**Client ID:** HA1-2.0'  
**Lab ID:** BBK0280-02 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
		Recovery			Acceptance Criteria						
Surrogate: Decachlorobiphenyl	76.1%			30-150		11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	
Surrogate: Tetrachloro-m-xylene	209%			30-150		11/23/20 08:29	11/23/20 11:31	B0K0620	ATS	3550B	

### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	5.77		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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## Analytical Results

**Client ID:** HA2-0.5'  
**Lab ID:** BBK0280-05 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
	Recovery								Acceptance Criteria	
Surrogate: Decachlorobiphenyl	63.1%					11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene	135%					11/23/20 08:29	11/23/20 11:51	B0K0620	ATS	3550B

### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	7.02		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

Client ID: HA2-2.0'

Lab ID: BBK0280-06 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Recovery		Acceptance Criteria								
Surrogate: Decachlorobiphenyl	130%			30-150		11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene	150%			30-150		11/23/20 08:29	11/23/20 12:10	B0K0620	ATS	3550B

### Wet Chemistry Analysis

Method: ASTM D2216

Moisture Content	9.62		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

**Client ID:** HA3-0.5'  
**Lab ID:** BBK0280-09 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Recovery		Acceptance Criteria								
Surrogate: Decachlorobiphenyl	44.0%			30-150		11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene	149%			30-150		11/23/20 08:29	11/23/20 14:07	B0K0620	ATS	3550B

### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	7.92		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

**Client ID:** HA3-2.0'  
**Lab ID:** BBK0280-10 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B	
Recovery											
Surrogate: Decachlorobiphenyl		77.7%	Acceptance Criteria		30-150		11/23/20 08:29	11/23/20 14:26	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene		139%	30-150		11/23/20 08:29		11/23/20 14:26	B0K0620	ATS	3550B	

### Wet Chemistry Analysis

**Method: ASTM D2216**

<b>Moisture Content</b>	<b>11.4</b>		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

**Client ID: HA1-Comp**  
**Lab ID: BBK0280-13 (Soil)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	11/25/20 08:45	11/25/20 20:50	B0K0713	HS	5030
<i>Recovery</i>				<i>Acceptance Criteria</i>						
<i>Surrogate: Bromofluorobenzene</i>	<i>112%</i>			<i>75-120</i>		11/25/20 08:45	11/25/20 20:50	B0K0713	HS	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

TPH as Diesel (C13-C22)	ND		1	10.0	mg/kg	11/23/20 11:34	11/24/20 09:47	B0K0648	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	100	mg/kg	11/23/20 11:34	11/24/20 09:47	B0K0648	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	100	mg/kg	11/23/20 11:34	11/24/20 09:47	B0K0648	TTN	3550B
<i>Recovery</i>				<i>Acceptance Criteria</i>						
<i>Surrogate: Chlorobenzene</i>	<i>86.8%</i>			<i>75-125</i>		11/23/20 11:34	11/24/20 09:47	B0K0648	TTN	3550B



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## Analytical Results

**Client ID:** HA2-Comp  
**Lab ID:** BBK0280-14 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	11/25/20 08:45	11/25/20 21:30	B0K0713	HS	5030
Recovery				Acceptance Criteria						
<i>Surrogate: Bromofluorobenzene</i>	<i>107%</i>			<i>75-120</i>		11/25/20 08:45	11/25/20 21:30	B0K0713	HS	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

TPH as Diesel (C13-C22)	ND		1	10.0	mg/kg	11/23/20 11:34	11/24/20 10:22	B0K0648	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	100	mg/kg	11/23/20 11:34	11/24/20 10:22	B0K0648	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	100	mg/kg	11/23/20 11:34	11/24/20 10:22	B0K0648	TTN	3550B
Recovery				Acceptance Criteria						
<i>Surrogate: Chlorobenzene</i>	<i>85.0%</i>			<i>75-125</i>		11/23/20 11:34	11/24/20 10:22	B0K0648	TTN	3550B



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

**Client ID: HA3-Comp**

**Lab ID: BBK0280-15 (Soil)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	11/25/20 08:45	11/25/20 22:09	B0K0713	HS	5030
<i>Surrogate: Bromofluorobenzene</i>		<i>Recovery</i>		<i>Acceptance Criteria</i>						
	<i>111%</i>			<i>75-120</i>		11/25/20 08:45	11/25/20 22:09	B0K0713	HS	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

TPH as Diesel (C13-C22)	ND		1	10.0	mg/kg	11/23/20 11:34	11/24/20 11:04	B0K0648	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	ND		1	100	mg/kg	11/23/20 11:34	11/24/20 11:04	B0K0648	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	100	mg/kg	11/23/20 11:34	11/24/20 11:04	B0K0648	TTN	3550B
<i>Surrogate: Chlorobenzene</i>		<i>Recovery</i>		<i>Acceptance Criteria</i>						
	<i>81.5%</i>			<i>75-125</i>		11/23/20 11:34	11/24/20 11:04	B0K0648	TTN	3550B





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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

Client ID: C1

Lab ID: BBK0280-16 (Concrete)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Recovery		Acceptance Criteria								
Surrogate: Decachlorobiphenyl	62.4%			30-150		11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene	106%			30-150		11/23/20 08:29	11/23/20 14:46	B0K0620	ATS	3550B

### Wet Chemistry Analysis

Method: ASTM D2216

Moisture Content	1.14		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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## Analytical Results

**Client ID: C2**

**Lab ID: BBK0280-17 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	11/25/20 08:45	11/26/20 00:06	B0K0713	HS	5030
Recovery		Acceptance Criteria								
<i>Surrogate: Bromofluorobenzene</i>	115%			75-120		11/25/20 08:45	11/26/20 00:06	B0K0713	HS	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

<b>TPH as Diesel (C13-C22)</b>	<b>1550</b>		1	10.0	mg/kg	11/23/20 11:34	11/24/20 11:41	B0K0648	TTN	3550B
<b>TPH as Heavy Hydrocarbons (C23-40)</b>	<b>2240</b>		1	100	mg/kg	11/23/20 11:34	11/24/20 11:41	B0K0648	TTN	3550B
<b>TPH Total as Diesel and Heavy HC (C13-C40)</b>	<b>3790</b>		1	100	mg/kg	11/23/20 11:34	11/24/20 11:41	B0K0648	TTN	3550B
Recovery		Acceptance Criteria								
<i>Surrogate: Chlorobenzene</i>	79.7%			75-125		11/23/20 11:34	11/24/20 11:41	B0K0648	TTN	3550B

### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
Recovery		Acceptance Criteria								
<i>Surrogate: Decachlorobiphenyl</i>	58.0%			30-150		11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B
<i>Surrogate: Tetrachloro-m-xylene</i>	101%			30-150		11/23/20 08:29	11/23/20 15:05	B0K0620	ATS	3550B



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

**Client ID: C2**

**Lab ID: BBK0280-17 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	1.81		1	0.100	% wt	11/20/20 14:06	11/20/20 14:12	B0K0608	AZ	ASTM-D2216
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## Analytical Results

**Client ID: C3**

**Lab ID: BBK0280-18 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	11/25/20 08:45	11/26/20 00:45	B0K0713	HS	5030
Recovery		Acceptance Criteria								
Surrogate: Bromofluorobenzene	101%			75-120		11/25/20 08:45	11/26/20 00:45	B0K0713	HS	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

TPH as Diesel (C13-C22)	917		2	20.0	mg/kg	11/23/20 11:34	11/24/20 14:47	B0K0648	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	4890		2	200	mg/kg	11/23/20 11:34	11/24/20 14:47	B0K0648	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	5800		2	200	mg/kg	11/23/20 11:34	11/24/20 14:47	B0K0648	TTN	3550B
Recovery		Acceptance Criteria								
Surrogate: Chlorobenzene	93.3%			75-125		11/23/20 11:34	11/24/20 14:47	B0K0648	TTN	3550B

### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Recovery		Acceptance Criteria								
Surrogate: Decachlorobiphenyl	58.6%			30-150		11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B
Surrogate: Tetrachloro-m-xylene	147%			30-150		11/23/20 08:29	11/23/20 15:25	B0K0620	ATS	3550B



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

**Client ID:** C3

**Lab ID:** BBK0280-18 (Concrete)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	2.30		1	0.100	% wt	11/20/20 14:06	11/23/20 09:42	B0K0608	AZ	ASTM-D2216
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## Analytical Results

Data Analyzed by: Positive Lab Service

**Client ID:** HA1-Comp  
**Lab ID:** BBK0280-13 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### EPA 6010B

**Method: Metals\_6010B CAM**

Antimony	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Arsenic</b>	<b>46.6</b>		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Barium</b>	<b>125</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
Beryllium	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
Cadmium	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Chromium</b>	<b>21.3</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Cobalt</b>	<b>11.6</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Copper</b>	<b>107</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Lead</b>	<b>26.4</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
Molybdenum	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Nickel</b>	<b>17.2</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
Selenium	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
Silver	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
Thallium	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Vanadium</b>	<b>43.0</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B
<b>Zinc</b>	<b>189</b>		1	5.00	mg/kg	12/02/20 09:55	12/02/20 12:37	BL00224	CG	EPA 3050B

### EPA 7471A

**Method: Mercury\_7471As**

Mercury	ND		1	0.100	mg/kg	12/02/20 10:57	12/02/20 16:06	BL00226	cg	EPA 7471A
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## Analytical Results

Data Analyzed by: Positive Lab Service

**Client ID:** HA2-Comp  
**Lab ID:** BBK0280-14 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
<b>EPA 6010B</b>										
<b>Method: Metals_6010B CAM</b>										
Antimony	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Arsenic</b>	<b>23.2</b>		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Barium</b>	<b>140</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
Beryllium	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
Cadmium	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Chromium</b>	<b>21.8</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Cobalt</b>	<b>11.9</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Copper</b>	<b>47.5</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Lead</b>	<b>27.3</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
Molybdenum	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Nickel</b>	<b>16.8</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
Selenium	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
Silver	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
Thallium	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Vanadium</b>	<b>44.3</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B
<b>Zinc</b>	<b>221</b>		1	5.00	mg/kg	12/02/20 09:55	12/02/20 12:50	BL00224	CG	EPA 3050B

### EPA 7471A

**Method: Mercury\_7471As**

Mercury	ND		1	0.100	mg/kg	12/02/20 10:57	12/02/20 16:06	BL00226	cg	EPA 7471A
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Analytical Results

Data Analyzed by: Positive Lab Service

Client ID: HA3-Comp

Lab ID: BBK0280-15 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
<b>EPA 6010B</b>										
<b>Method: Metals_6010B CAM</b>										
<b>Antimony</b>	<b>2.68</b>		1	2.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Arsenic</b>	<b>69.2</b>		1	2.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Barium</b>	<b>134</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
Beryllium	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
Cadmium	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Chromium</b>	<b>23.4</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Cobalt</b>	<b>13.4</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Copper</b>	<b>48.5</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Lead</b>	<b>21.9</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
Molybdenum	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Nickel</b>	<b>18.8</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
Selenium	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
Silver	ND		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
Thallium	ND		1	2.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Vanadium</b>	<b>45.5</b>		1	1.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B
<b>Zinc</b>	<b>213</b>		1	5.00	mg/kg	12/02/20 09:55	12/02/20 13:03	BL00224	CG	EPA 3050B

## EPA 7471A

Method: Mercury\_7471As

Mercury	ND		1	0.100	mg/kg	12/02/20 10:57	12/02/20 16:06	BL00226	cg	EPA 7471A
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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**Batch: B0K0674 - 3050B**

Method Blank (B0K0674-BLK1)

Prepared: 11/20/2020 13:27

Analyzed: 11/23/2020 15:15

Antimony	ND	5.00	mg/kg							
Arsenic	ND	1.50	mg/kg							
Barium	ND	5.00	mg/kg							
Beryllium	ND	2.50	mg/kg							
Cadmium	ND	2.50	mg/kg							
Chromium	ND	5.00	mg/kg							
Cobalt	ND	5.00	mg/kg							
Copper	ND	5.00	mg/kg							
Lead	ND	5.00	mg/kg							
Molybdenum	ND	5.00	mg/kg							
Nickel	ND	5.00	mg/kg							
Selenium	ND	5.00	mg/kg							
Silver	ND	5.00	mg/kg							
Thallium	ND	5.00	mg/kg							
Vanadium	ND	5.00	mg/kg							
Zinc	ND	2.50	mg/kg							



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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### Batch: B0K0674 - 3050B (Continued)

LCS (B0K0674-BS1)

Prepared: 11/20/2020 13:27

Analyzed: 11/23/2020 10:25

Antimony	48.4	5.00	mg/kg	50.0		96.8	75-125			
Arsenic	50.0	1.50	mg/kg	50.0		100	75-125			
Barium	51.7	5.00	mg/kg	50.0		103	75-125			
Beryllium	52.7	2.50	mg/kg	50.0		105	75-125			
Cadmium	51.7	2.50	mg/kg	50.0		103	75-125			
Chromium	51.8	5.00	mg/kg	50.0		104	75-125			
Cobalt	50.9	5.00	mg/kg	50.0		102	75-125			
Copper	51.3	5.00	mg/kg	50.0		103	75-125			
Lead	48.9	5.00	mg/kg	50.0		97.8	75-125			
Molybdenum	48.9	5.00	mg/kg	50.0		97.9	75-125			
Nickel	50.7	5.00	mg/kg	50.0		101	75-125			
Selenium	51.4	5.00	mg/kg	50.0		103	75-125			
Silver	49.9	5.00	mg/kg	50.0		99.7	75-125			
Thallium	47.7	5.00	mg/kg	50.0		95.4	75-125			
Vanadium	50.8	5.00	mg/kg	50.0		102	75-125			
Zinc	51.8	2.50	mg/kg	50.0		104	75-125			

#### LCS (B0K0674-BSD1)

Analyzed: 11/23/2020 10:27

Antimony	49.6	5.00	mg/kg	50.0		99.3	75-125	2.54	15	
Arsenic	50.6	1.50	mg/kg	50.0		101	75-125	1.19	15	
Barium	51.6	5.00	mg/kg	50.0		103	75-125	<1.00	15	
Beryllium	51.7	2.50	mg/kg	50.0		103	75-125	1.85	15	
Cadmium	51.6	2.50	mg/kg	50.0		103	75-125	<1.00	15	
Chromium	52.3	5.00	mg/kg	50.0		105	75-125	1.03	15	
Cobalt	50.7	5.00	mg/kg	50.0		101	75-125	<1.00	15	
Copper	51.3	5.00	mg/kg	50.0		103	75-125	<1.00	15	
Lead	49.8	5.00	mg/kg	50.0		99.6	75-125	1.82	15	
Molybdenum	49.3	5.00	mg/kg	50.0		98.6	75-125	<1.00	15	
Nickel	50.7	5.00	mg/kg	50.0		101	75-125	<1.00	15	
Selenium	51.9	5.00	mg/kg	50.0		104	75-125	1.01	15	
Silver	49.8	5.00	mg/kg	50.0		99.5	75-125	<1.00	15	
Thallium	48.4	5.00	mg/kg	50.0		96.9	75-125	1.50	15	
Vanadium	50.8	5.00	mg/kg	50.0		102	75-125	<1.00	15	
Zinc	51.8	2.50	mg/kg	50.0		104	75-125	<1.00	15	



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### Batch: B0K0674 - 3050B (Continued)

Duplicate (B0K0674-DUP1)

Source: BBK0323-01

Prepared: 11/20/2020 13:27

Analyzed: 11/23/2020 15:29

Antimony	ND	5.00	mg/kg		ND			<1.00	15	
Arsenic	23.6	1.50	mg/kg		26.3			10.7	15	
Barium	36.2	5.00	mg/kg		39.9			9.54	15	
Beryllium	ND	2.50	mg/kg		ND			<1.00	15	
Cadmium	1.45	2.50	mg/kg		ND				15	
Chromium	11.5	5.00	mg/kg		12.1			5.30	15	
Cobalt	6.29	5.00	mg/kg		6.57			4.35	15	
Copper	19.2	5.00	mg/kg		20.4			6.18	15	
Lead	25.2	5.00	mg/kg		25.2			<1.00	15	
Molybdenum	ND	5.00	mg/kg		ND			<1.00	15	
Nickel	6.97	5.00	mg/kg		7.25			3.94	15	
Selenium	ND	5.00	mg/kg		ND			<1.00	15	
Silver	ND	5.00	mg/kg		ND			<1.00	15	
Thallium	ND	5.00	mg/kg		ND			<1.00	15	
Vanadium	26.8	5.00	mg/kg		26.7			<1.00	15	
Zinc	43.2	2.50	mg/kg		44.2			2.32	15	

#### Matrix Spike (B0K0674-MS1)

Source: BBK0323-01

Analyzed: 11/23/2020 15:31

Antimony	45.5	5.00	mg/kg	50.0	ND	91.0	75-125			
Arsenic	72.1	1.50	mg/kg	50.0	26.3	91.7	75-125			
Barium	83.0	5.00	mg/kg	50.0	39.9	86.4	75-125			
Beryllium	50.7	2.50	mg/kg	50.0	ND	101	75-125			
Cadmium	45.6	2.50	mg/kg	50.0	ND	91.1	75-125			
Chromium	58.2	5.00	mg/kg	50.0	12.1	92.1	75-125			
Cobalt	51.8	5.00	mg/kg	50.0	6.57	90.5	75-125			
Copper	69.7	5.00	mg/kg	50.0	20.4	98.5	75-125			
Lead	62.3	5.00	mg/kg	50.0	25.2	74.1	75-125			M
Molybdenum	45.8	5.00	mg/kg	50.0	ND	91.7	75-125			
Nickel	51.7	5.00	mg/kg	50.0	7.25	88.8	75-125			
Selenium	40.4	5.00	mg/kg	50.0	ND	80.8	75-125			
Silver	44.7	5.00	mg/kg	50.0	ND	89.4	75-125			
Thallium	30.4	5.00	mg/kg	50.0	ND	60.8	75-125			M
Vanadium	75.5	5.00	mg/kg	50.0	26.7	97.7	75-125			
Zinc	85.5	2.50	mg/kg	50.0	44.2	82.6	75-125			



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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0674 - 3050B (Continued)</b>				<b>Prepared: 11/20/2020 13:27</b>						
Matrix Spike Dup (B0K0674-MSD1)				<b>Analyzed: 11/23/2020 15:33</b>						
				<b>Source: BBK0323-01</b>						
Antimony	45.7	5.00	mg/kg	50.0	ND	91.4	75-125	<1.00	15	
Arsenic	73.6	1.50	mg/kg	50.0	26.3	94.6	75-125	2.03	15	
Barium	82.5	5.00	mg/kg	50.0	39.9	85.4	75-125	<1.00	15	
Beryllium	50.9	2.50	mg/kg	50.0	ND	102	75-125	<1.00	15	
Cadmium	45.5	2.50	mg/kg	50.0	ND	91.0	75-125	<1.00	15	
Chromium	58.8	5.00	mg/kg	50.0	12.1	93.2	75-125	<1.00	15	
Cobalt	52.4	5.00	mg/kg	50.0	6.57	91.6	75-125	1.06	15	
Copper	69.0	5.00	mg/kg	50.0	20.4	97.1	75-125	1.01	15	
Lead	62.6	5.00	mg/kg	50.0	25.2	74.9	75-125	<1.00	15	M
Molybdenum	46.2	5.00	mg/kg	50.0	ND	92.3	75-125	<1.00	15	
Nickel	52.1	5.00	mg/kg	50.0	7.25	89.7	75-125	<1.00	15	
Selenium	41.8	5.00	mg/kg	50.0	ND	83.6	75-125	3.41	15	
Silver	44.4	5.00	mg/kg	50.0	ND	88.8	75-125	<1.00	15	
Thallium	29.4	5.00	mg/kg	50.0	ND	58.9	75-125	3.31	15	M
Vanadium	75.1	5.00	mg/kg	50.0	26.7	96.8	75-125	<1.00	15	
Zinc	85.1	2.50	mg/kg	50.0	44.2	81.8	75-125	<1.00	15	



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## Quality Control Results

### TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0713 - 5030</b>				<b>Prepared: 11/25/2020 09:00</b>						
Method Blank (B0K0713-BLK1)				<b>Analyzed: 11/25/2020 10:59</b>						
TPH as Gasoline and Light HC. (C4-C12)	ND	10.0	mg/kg							
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0557</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>111</i>	<i>75-120</i>			



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## Quality Control Results

### TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0713 - 5030 (Continued)</b>				<b>Prepared: 11/25/2020 09:00</b>						
<b>LCS (B0K0713-BS1)</b>				<b>Analyzed: 11/25/2020 09:41</b>						
TPH as Gasoline and Light HC. (C4-C12)	0.841	10.0	mg/kg	1.00		84.1	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0515</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>103</i>	<i>75-120</i>			
<b>LCSD (B0K0713-BSD1)</b>				<b>Analyzed: 11/25/2020 10:20</b>						
TPH as Gasoline and Light HC. (C4-C12)	0.849	10.0	mg/kg	1.00		84.9	75-125	<1.00	15	
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0512</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>102</i>	<i>75-120</i>			
<b>Matrix Spike (B0K0713-MS1)</b>				<b>Source: BBK0280-15</b>			<b>Analyzed: 11/25/2020 22:48</b>			
TPH as Gasoline and Light HC. (C4-C12)	0.803	10.0	mg/kg	1.00	ND	80.3	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0561</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>112</i>	<i>75-120</i>			
<b>Matrix Spike Dup (B0K0713-MSD1)</b>				<b>Source: BBK0280-15</b>			<b>Analyzed: 11/25/2020 23:27</b>			
TPH as Gasoline and Light HC. (C4-C12)	0.807	10.0	mg/kg	1.00	ND	80.7	75-125	<1.00	15	
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0540</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>108</i>	<i>75-120</i>			



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## Quality Control Results

### TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0648 - 3550B</b>				<b>Prepared: 11/23/2020 09:34</b>						
Method Blank (B0K0648-BLK1)				<b>Analyzed: 11/23/2020 10:11</b>						
TPH as Diesel (C13-C22)	ND	10.0	mg/kg							
TPH as Heavy Hydrocarbons (C23-40)	ND	100	mg/kg							
TPH Total as Diesel and Heavy HC (C13-C40)	ND	100	mg/kg							
<i>Surrogate: Chlorobenzene</i>	<i>96.4</i>		<i>mg/kg</i>	<i>100</i>		<i>96.4</i>	<i>75-125</i>			



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## Quality Control Results

### TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0648 - 3550B (Continued)</b>				<b>Prepared: 11/23/2020 09:34</b>						
LCS (B0K0648-BS1)				<b>Analyzed: 11/23/2020 14:24</b>						
TPH as Diesel (C13-C22)	527	10.0	mg/kg	500		105	75-125			
<i>Surrogate: Chlorobenzene</i>	<i>88.3</i>		<i>mg/kg</i>	<i>100</i>		<i>88.3</i>	<i>75-125</i>			
LCSD (B0K0648-BSD1)				<b>Analyzed: 11/23/2020 14:59</b>						
TPH as Diesel (C13-C22)	529	10.0	mg/kg	500		106	75-125	<1.00	20	
<i>Surrogate: Chlorobenzene</i>	<i>90.6</i>		<i>mg/kg</i>	<i>100</i>		<i>90.6</i>	<i>75-125</i>			
Matrix Spike (B0K0648-MS1)				<b>Source: BBK0306-16</b>			<b>Analyzed: 11/23/2020 15:34</b>			
TPH as Diesel (C13-C22)	522	10.0	mg/kg	500	ND	104	75-125			
<i>Surrogate: Chlorobenzene</i>	<i>83.1</i>		<i>mg/kg</i>	<i>100</i>		<i>83.1</i>	<i>75-125</i>			
Matrix Spike Dup (B0K0648-MSD1)				<b>Source: BBK0306-16</b>			<b>Analyzed: 11/23/2020 16:09</b>			
TPH as Diesel (C13-C22)	530	10.0	mg/kg	500	ND	106	75-125	1.51	20	
<i>Surrogate: Chlorobenzene</i>	<i>83.8</i>		<i>mg/kg</i>	<i>100</i>		<i>83.8</i>	<i>75-125</i>			





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## Quality Control Results

### PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0620 - 3550B</b>										
Method Blank (B0K0620-BLK1)										
Prepared: 11/23/2020 08:29										
Analyzed: 11/23/2020 09:35										
Aroclor-1016 (PCB-1016)	ND	0.0500	mg/kg wet							
Aroclor-1221 (PCB-1221)	ND	0.0500	mg/kg wet							
Aroclor-1232 (PCB-1232)	ND	0.0500	mg/kg wet							
Aroclor-1242 (PCB-1242)	ND	0.0500	mg/kg wet							
Aroclor-1248 (PCB-1248)	ND	0.0500	mg/kg wet							
Aroclor-1254 (PCB-1254)	ND	0.0500	mg/kg wet							
Aroclor-1260 (PCB-1260)	ND	0.0500	mg/kg wet							
Aroclor-1262 (PCB-1262)	ND	0.0500	mg/kg wet							
Aroclor-1268 (PCB-1268)	ND	0.0500	mg/kg wet							
Surrogate: Decachlorobiphenyl	0.0130		mg/kg wet	0.0250		52.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.0323		mg/kg wet	0.0250		129	30-150			



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## Quality Control Results

### PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0620 - 3550B (Continued)</b>				<b>Prepared: 11/23/2020 08:29</b>						
LCS (B0K0620-BS1)				<b>Analyzed: 11/23/2020 08:56</b>						
Aroclor-1016 (PCB-1016)	0.645	0.0500	mg/kg wet	0.500		129	50-150			
Aroclor-1260 (PCB-1260)	0.447	0.0500	mg/kg wet	0.500		89.4	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0156</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>62.4</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0221</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>88.2</i>	<i>30-150</i>			
LCSD (B0K0620-BSD1)				<b>Analyzed: 11/23/2020 09:16</b>						
Aroclor-1016 (PCB-1016)	0.538	0.0500	mg/kg wet	0.500		108	50-150	18.1	40	
Aroclor-1260 (PCB-1260)	0.323	0.0500	mg/kg wet	0.500		64.7	50-150	32.1	40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0224</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>89.6</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0206</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>82.4</i>	<i>30-150</i>			



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## Quality Control Results

### Wet Chemistry Analysis (ASTM D2216)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0K0608 - ASTM-D2216</b>				<b>Prepared: 11/20/2020 14:06</b>						
Duplicate (B0K0608-DUP1)				<b>Source: BBK0300-01</b>						
				<b>Analyzed: 11/20/2020 14:12</b>						
Moisture Content	0.134	0.100	% wt		0.138			2.94	15	



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## Quality Control Results

### EPA 6010B (Metals\_6010B CAM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: BL00224 - EPA 3050B</b>				<b>Prepared: 12/02/2020 09:55</b>						
Method Blank (BL00224-BLK1)				<b>Analyzed: 12/02/2020 12:30</b>						
Antimony	ND	2.00	mg/kg				-			
Arsenic	ND	2.00	mg/kg				-			
Barium	ND	1.00	mg/kg				-			
Beryllium	ND	1.00	mg/kg				-			
Cadmium	ND	1.00	mg/kg				-			
Chromium	ND	1.00	mg/kg				-			
Cobalt	ND	1.00	mg/kg				-			
Copper	ND	1.00	mg/kg				-			
Lead	ND	1.00	mg/kg				-			
Molybdenum	ND	1.00	mg/kg				-			
Nickel	ND	1.00	mg/kg				-			
Selenium	ND	2.00	mg/kg				-			
Silver	ND	1.00	mg/kg				-			
Thallium	ND	2.00	mg/kg				-			
Vanadium	ND	1.00	mg/kg				-			
Zinc	ND	5.00	mg/kg				-			



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## Quality Control Results

### EPA 6010B (Metals\_6010B CAM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### Batch: BL00224 - EPA 3050B (Continued)

Prepared: 12/02/2020 09:55

LCS (BL00224-BS1)

Analyzed: 12/02/2020 12:34

Antimony	48.7	2.00	mg/kg	50.00		97.4	60-140			
Arsenic	46.9	2.00	mg/kg	49.83		94.1	80-120			
Barium	202	1.00	mg/kg	201.7		100	80-120			
Beryllium	4.57	1.00	mg/kg	4.950		92.3	80-120			
Cadmium	5.03	1.00	mg/kg	5.010		100	80-120			
Chromium	20.1	1.00	mg/kg	20.02		100	80-120			
Cobalt	52.0	1.00	mg/kg	49.92		104	80-120			
Copper	26.0	1.00	mg/kg	25.23		103	80-120			
Lead	51.8	1.00	mg/kg	50.20		103	80-120			
Molybdenum	46.8	1.00	mg/kg	49.83		94.0	80-120			
Nickel	52.5	1.00	mg/kg	50.20		105	80-120			
Selenium	47.6	2.00	mg/kg	49.60		96.1	80-120			
Silver	4.97	1.00	mg/kg	5.020		98.9	80-120			
Thallium	51.0	2.00	mg/kg	50.10		102	80-120			
Vanadium	47.4	1.00	mg/kg	49.95		95.0	80-120			
Zinc	50.1	5.00	mg/kg	49.90		100	80-120			

#### Matrix Spike (BL00224-MS1)

Source: BBK0280-13

Analyzed: 12/02/2020 12:44

Antimony	46.4	2.00	mg/kg	50.00	1.96	88.9	60-140			
Arsenic	93.5	2.00	mg/kg	49.83	46.6	94.1	75-125			
Barium	308	1.00	mg/kg	201.7	125	90.8	75-125			
Beryllium	4.87	1.00	mg/kg	4.950	0.373	90.8	75-125			
Cadmium	5.12	1.00	mg/kg	5.010	0.470	92.8	75-125			
Chromium	40.0	1.00	mg/kg	20.02	21.3	93.3	75-125			
Cobalt	58.3	1.00	mg/kg	49.92	11.6	93.5	75-125			
Copper	73.6	1.00	mg/kg	25.23	107	NR	75-125			V-2
Lead	70.2	1.00	mg/kg	50.20	26.4	87.2	75-125			
Molybdenum	45.0	1.00	mg/kg	49.83	ND	90.3	75-125			
Nickel	63.4	1.00	mg/kg	50.20	17.2	92.0	75-125			
Selenium	46.9	2.00	mg/kg	49.60	ND	94.6	75-125			
Silver	4.64	1.00	mg/kg	5.020	ND	92.5	75-125			
Thallium	45.2	2.00	mg/kg	50.10	ND	90.2	75-125			
Vanadium	87.8	1.00	mg/kg	49.95	43.0	89.6	75-125			
Zinc	228	5.00	mg/kg	49.90	189	78.1	75-125			



# AMERICAN ENVIRONMENTAL TESTING LABORATORY

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
--	--	--

## Quality Control Results

### EPA 6010B (Metals\_6010B CAM)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: BL00224 - EPA 3050B (Continued)</b>				<b>Prepared: 12/02/2020 09:55</b>						
Matrix Spike Dup (BL00224-MSD1)				<b>Analyzed: 12/02/2020 12:47</b>						
	<b>Source: BBK0280-13</b>									
Antimony	43.4	2.00	mg/kg	50.00	1.96	82.9	60-140	6.96	30	
Arsenic	100	2.00	mg/kg	49.83	46.6	107	75-125	13.2	30	
Barium	322	1.00	mg/kg	201.7	125	98.0	75-125	7.57	30	
Beryllium	4.81	1.00	mg/kg	4.950	0.373	89.6	75-125	1.38	30	
Cadmium	5.02	1.00	mg/kg	5.010	0.470	90.7	75-125	2.25	30	
Chromium	43.5	1.00	mg/kg	20.02	21.3	111	75-125	17.1	30	
Cobalt	56.4	1.00	mg/kg	49.92	11.6	89.7	75-125	4.09	30	
Copper	80.1	1.00	mg/kg	25.23	107	NR	75-125	NR	30	V-2
Lead	83.3	1.00	mg/kg	50.20	26.4	113	75-125	26.1	30	
Molybdenum	43.1	1.00	mg/kg	49.83	ND	86.6	75-125	4.25	30	
Nickel	63.6	1.00	mg/kg	50.20	17.2	92.4	75-125	<1.00	30	
Selenium	45.6	2.00	mg/kg	49.60	ND	91.9	75-125	2.91	30	
Silver	4.59	1.00	mg/kg	5.020	ND	91.4	75-125	1.13	30	
Thallium	42.8	2.00	mg/kg	50.10	ND	85.5	75-125	5.43	30	
Vanadium	90.2	1.00	mg/kg	49.95	43.0	94.4	75-125	5.25	30	
Zinc	249	5.00	mg/kg	49.90	189	119	75-125	41.6	30	V-2



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
--	--	--

## Quality Control Results

### EPA 7471A (Mercury\_7471As)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: BL00226 - EPA 7471A</b>				<b>Prepared: 12/02/2020 10:57</b>						
Method Blank (BL00226-BLK1)				<b>Analyzed: 12/02/2020 16:06</b>						
Mercury	ND	0.100	mg/kg							



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
--	--	--

## Quality Control Results

### EPA 7471A (Mercury\_7471As)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: BL00226 - EPA 7471A (Continued)</b>				<b>Prepared: 12/02/2020 10:57</b>						
LCS (BL00226-BS1)				<b>Analyzed: 12/02/2020 16:06</b>						
Mercury	0.893	0.100	mg/kg	0.8325		107	80-120			
Matrix Spike (BL00226-MS1)				<b>Source: BBK0280-13</b>						
				<b>Analyzed: 12/02/2020 16:06</b>						
Mercury	0.885	0.100	mg/kg	0.8325	0.0431	101	75-125			
Matrix Spike Dup (BL00226-MSD1)				<b>Source: BBK0280-13</b>						
				<b>Analyzed: 12/02/2020 16:06</b>						
Mercury	0.942	0.100	mg/kg	0.8325	0.0431	108	75-125	6.60	25	





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Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768

AETL Job Number: BBK0280  
Project Number: IO# 346292  
Attention: Ryan Castillo  
Project Name: WCI- Northstar

Site: Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241  
Reported: 12/02/2020 17:44

## Qualifiers and Definitions

ITEM	Qualifiers
M	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference. Laboratory Control Samples(LCS/LCSD) recovery were acceptable.
V-2	Out-of-Range recovery was due to sample Heterogeneity.
ITEM	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/02/2020 17:44
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- OSHA Occupational Safety and Health Administration
- PCB Polychlorinated Biphenyl
- RL Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
- RPD Relative Percent Difference
- SIM Selective Ion Monitoring
- SPLP Synthetic Precipitation Leaching Procedure
- STLC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leaching Procedure
- TPH Total Petroleum Hydrocarbons
- TTLC Total Threshold Limit Concentrations
- ug/kg Micrograms per Kilogram
- ug/L Micrograms per Liter
- ug/m3 Micrograms per cubic meter
- WET Waste Extraction Test
- Y Yes
- ZHE Zero Headspace Extraction



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December 08, 2020

AETL Job No: BBK0280  
Received Date: 11/18/2020  
Project Number: IO# 346292

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768  
Telephone: (909) 274-1646

Attention: Ryan Castillo

Project Name: Downey Sub CB Replacment  
Site: Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Christine Novshadayan  
Project Manager

Approved By:

Jim Lin  
Project Manager

# Table of Contents

Client Project Name: WCI- Northstar (IO# 346292)  
Work Order Number: BBK0280

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/08/2020 11:52
--	--	--

## Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 3.3 °C

Are the COCs Correct	Y	Containers In Good Condition	Y
Labels Legible	Y	Samples Preserved Properly	Y
COC/Labels Agree	Y	Sufficient Holding Time for all Tests	Y
Sufficient Sample Volume	Y	Received on Ice	Y



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**CHAIN OF CUSTODY RECORD**

117813

AETL JOB No. **BBK0280**

Page **1** of **2**

COMPANY: **Norstar Environmental Remediation**  
 COMPANY ADDRESS: **26225 Enterprise Ct., Lake Forest, CA**  
 PROJECT NAME: **Downey Sub CB Replacements**  
 SITE NAME AND ADDRESS: **Downey Sub 11728 Brookshire Ave., Downey, CA**  
 PROJECT # **20# 346292**  
 PO #

PROJECT MANAGER **Bob Tweidt**  
 S/C: **Pyan Castillo**  
 PHONE **(949) 580-2800**  
 EMAIL **rob.tweidt@norstar.com**

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
							PCBs (EPA 8082)	Moisture Content ASTM-D226	TPH (EPA 8015 B)	Title 22 Metals		
1	HA1-0.5	BBK0280.01	11/17/20	0740	Soil	80Z						Report PCBs in dry weight
2	HA1-2.0	BBK0280.02		0750			X					Composites consist of all Sampling depths from an individual boring
3	HA1-3.5	BBK0280.03		0755			X					Per = 1.0 mg/kg
4	HA1-5.0	BBK0280.04		0800			X					
5	HA2-0.5	BBK0280.05		0805			X					Hold
6	HA2-2.0	BBK0280.06		0810			X					Hold
7	HA2-3.5	BBK0280.07		0815			X					Hold
8	HA2-5.0	BBK0280.08		0825			X					Hold
9	HA3-0.5	BBK0280.09		0830			X					Hold
10	HA3-2.0	BBK0280.10		0835			X					Hold
11	HA3-3.5	BBK0280.11		0840			X	X				Hold
12	HA3-5.0	BBK0280.12		0845			X	X				Hold
13	HA1-Camp	BBK0280.13						X				
14	HA2-Camp	BBK0280.14						X				
15	HA3-Camp	BBK0280.15						X				

TOTAL NUMBER OF CONTAINERS: **12**

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

Signature: **Mike DeKort**  
 Printed Name: **MIKE DEKORT**  
 Date: **11-18-20** Time: **1030**

**RECEIVED BY: 1.**

Signature: **Demetrius**  
 Printed Name: **Demetrius**  
 Date: **11-18-20** Time: **1030**

**DATA DELIVERABLE REQUIRED**

HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

**TURN AROUND TIME**

SAME DAY RUSH  
 NEXT DAY RUSH  
 3 DAYS RUSH  
 4 DAYS RUSH

**RELINQUISHED BY: 2.**

Signature: **Demetrius**  
 Printed Name: **Demetrius**  
 Date: **11-18-20** Time: **1430**

**RECEIVED BY: 3.**

Signature: **Demetrius**  
 Printed Name: **Demetrius**  
 Date: **11-18-20** Time: **1430**

**RELINQUISHED BY: 1.**

Signature: **Demetrius**  
 Printed Name: **Demetrius**  
 Date: **11-18-20** Time: **1430**

**RECEIVED BY: 2.**

Signature: **Demetrius**  
 Printed Name: **Demetrius**  
 Date: **11-18-20** Time: **1430**

**RECEIVED BY: 3.**

Signature: **Demetrius**  
 Printed Name: **Demetrius**  
 Date: **11-18-20** Time: **1430**

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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**CHAIN OF CUSTODY RECORD**

117812

AETL JOB No. BBK0280

Page 2 of 2

COMPANY: Norstar Environmental Remediation  
 PROJECT MANAGER: Rob Tweed  
 COMPANY ADDRESS: SCE: Ryan Castillo  
 PHONE: (949) 580-2800  
 EMAIL: rob.tweed@norstar.com  
 PROJECT NAME: 26225 Enterprise Ct., Lake Forest, CA  
 PROJECT #: Io# 346292  
 PO #: \_\_\_\_\_  
 SITE NAME AND ADDRESS: Downey Sub B Downey Sub  
11228 Brookshire Ave., Downey, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	
1	C1	BBK0280.16	11/17/20	0915	Concrete	602	Ice
2	C2	BBK0280.17	0955				
3	C3	BBK0280.18	1035				
4	C2	BBK0280.19	0955				
5	C3	BBK0280.20	1035				
7							
8							
9							
10							
11							
12							
13							
14							
15							

TOTAL NUMBER OF CONTAINERS: 5

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

Signature: Mike DeLator  
 Printed Name: Mike DeLator  
 Date: 11-18-20 Time: 1030

**TURN AROUND TIME**

NORMAL  SAME DAY RUSH  NEXT DAY RUSH   
 2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH   
 HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY) \_\_\_\_\_

**ANALYSIS REQUESTED**

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
PCBs (EPA 8082)	See Page 1 of 2
Moisture Content	
AsTM-D2216	
TPH-mod 8015B	

**RELINQUISHED BY:**

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

**RECEIVED BY:**

Signature: [Signature]  
 Printed Name: Thomas Gibson  
 Date: 11-18-20 Time: 1430

TRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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**CHAIN OF CUSTODY RECORD**

117813

Page 1 of 2

AETL JOB No. **BBK0280**

COMPANY: **Northstar Environmental Remediation**  
 PROJECT NAME: **26225 Enterprise Ct., Lake Forest, CA**  
 SITE NAME AND ADDRESS: **Downey Sub CB Replacements**  
 PROJECT MANAGER: **Bob Tweidt**  
 EMAIL: **rob.tweidt@northstar.com**  
 PHONE: **(949) 580-2800**  
 PROJECT # **20# 346292**  
 PO #

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
HA1-0.5	BBK0280.01	11/17/20	0740	Soil	80Z	ICE	PCBs (EPA 8082) Moisture Content ASTM-D2216 TPH (EPA 8015 B) Title 22 Metal	Report PCBs in dry weight Composites consist of all Sampling depths from an individual boring Pop = 1.0 mg/kg
HA1-2.0	BBK0280.02		0750				STC Arsenic	
HA1-3.5	BBK0280.03		0755					
HA1-5.0	BBK0280.04		0800					
HA2-0.5	BBK0280.05		0805					Hold
HA2-2.0	BBK0280.06		0810					Hold
HA2-3.5	BBK0280.07		0815					Hold
HA2-5.0	BBK0280.08		0825					Hold
HA3-0.5	BBK0280.09		0830					Hold
HA3-2.0	BBK0280.10		0835					Hold
HA3-3.5	BBK0280.11		0840					Hold
HA1-Camp	BBK0280.12		0845				X	Hold
HA2-Camp	BBK0280.13						X	Hold
HA3-Camp	BBK0280.14						X	Hold
	BBK0280.15						X	Hold

TOTAL NUMBER OF CONTAINERS: **12**

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

RELINQUISHED BY SAMPLER: **1. Signature: Mike Decker, Printed Name: Mike Decker, Date: 11-18-20, Time: 1030**

RELINQUISHED BY: **2. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

RELINQUISHED BY: **3. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

**TURN AROUND TIME**

NORMAL  SAME DAY RUSH  NEXT DAY RUSH

2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH

**DATA DELIVERABLE REQUIRED**

HARD COPY  E-COPY  GEOTRACKER (GLOBAL ID)  OTHER (PLEASE SPECIFY)

RECEIVED BY: **1. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

RECEIVED BY: **2. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

RECEIVED BY: **LABORATORY: 3. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

RECEIVED BY: **LABORATORY: 3. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

RECEIVED BY: **LABORATORY: 3. Signature: [Blank], Printed Name: [Blank], Date: [Blank], Time: [Blank]**

TRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator





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**CHAIN OF CUSTODY RECORD**

117812

AETL JOB NO. **BBK0280**

Page 2 of 2

COMPANY: **Aerostar Environmental Remediation**  
 PROJECT NAME: **26225 Enterprise Ct., Lake Forest, CA**  
 SITE NAME AND ADDRESS: **Downey sub CB Replacements Downey sub**  
 PROJECT #: **10# 346292**  
 PO #:

PROJECT MANAGER: **Bob Tweed**  
 SCE: **Ryan Castillo**  
 PHONE: **(949) 580-2800**  
 EMAIL: **bob.tweed@aerostar.com**

11728 Brookshire Ave, Downey, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
C1	BBK0280-16	11/17/20	0915	Concrete	803	Ice
C2	BBK0280-17		0955			
C3	BBK0280-18		1035			
C2	BBK0280-19 SP		0955			
C3	BBK0280-20 JP		1035			

**ANALYSIS REQUESTED**

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
Moisture Content	
PCBs (EPA 8082)	
TPH-mod 8015B	
ASTM-D2216	
VOCs 8260B	
	See Page 1 of 2

TOTAL NUMBER OF CONTAINERS: **5**

RELINQUISHED BY SAMPLER:

RELINQUISHED BY:

RELINQUISHED BY:

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

Signature: *Mike DeLeon*  
 Printed Name: **Mike DeLeon**  
 Date: **11-18-20** Time: **1030**

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Signature: *Theresa Labrum*  
 Printed Name: **Theresa Labrum**  
 Date: **11-18-20** Time: **1430**

**TURN AROUND TIME**

**DATA DELIVERABLE REQUIRED**

- NORMAL  SAME DAY RUSH  NEXT DAY RUSH   
 2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH

- HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

RELINQUISHED BY:

RELINQUISHED BY:

RELINQUISHED BY:

Signature: *Theresa Labrum*  
 Printed Name: **Theresa Labrum**  
 Date: **11-18-20** Time: **1030**

Signature: \_\_\_\_\_  
 Printed Name: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_

Signature: *Theresa Labrum*  
 Printed Name: **Theresa Labrum**  
 Date: **11/18/20** Time: **1430**

## Jim Lin

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**From:** Ryan Castillo <Ryan.Castillo@sce.com>  
**Sent:** Thursday, December 3, 2020 7:54 AM  
**To:** Jim Lin  
**Cc:** Joe Sevrean; Rob Tweidt; Kathy Tweidt (Northstar Env Rem)  
**Subject:** RE: (External):Results of analysis, AETL Job No.: BBK0280 (In Summary Table and PDF formats) of 6 discrete soil, 3 composite soil, & 1 concrete samples from "Downey Substation CB Replacement, IO# 346292"

Jim, please run VOCs on AETL Jon No. BBK0280, concrete sample C3 and STLC on arsenic in sample HA3-Comp, fast as you can.

Thanks,

Ryan

**From:** Jim Lin <jiml@aetlab.com>  
**Sent:** Wednesday, December 2, 2020 6:09 PM  
**To:** Ryan Castillo <Ryan.Castillo@sce.com>  
**Cc:** Michael Weinberger <michael.b.weinberger@sce.com>; Joe Sevrean <Jsevrean@aetlab.com>; Rob Tweidt <rob.tweidt@northstarer.com>; Kathy Tweidt (Northstar Env Rem) <Kathy.Tweidt@NorthstarER.com>; Christine Brendle <christine.brendle@sce.com>  
**Subject:** (External):Results of analysis, AETL Job No.: BBK0280 (In Summary Table and PDF formats) of 6 discrete soil, 3 composite soil, & 1 concrete samples from "Downey Substation CB Replacement, IO# 346292"

**\*\*\* EXTERNAL EMAIL - Use caution when opening links or attachments \*\*\***

Dear Ryan, Christine, Michael, Rob, & Kathy,

Herewith please find results of analysis (In Summary Table and PDF formats) of 6 discrete soil, 3 composite soil, & 1 concrete samples from "Downey Substation CB Replacement, IO# 346292" which were received by AETL on 11/18/2020 at 1430.

**AETL Job No: BBK0280**

If you have any questions, please feel free to give us a call.

Thank you,

**Jim Lin**

Project Manager

**AETL, LLC.**

2834 N. Naomi St., Burbank, CA 91504

3329 Vincent Rd. Pleasant Hill, CA 94523

T 818.845.8200 C 818.399.7095

[jiml@aetlab.com](mailto:jiml@aetlab.com) [www.aetlab.com](http://www.aetlab.com)



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**SBE/VSBE/EBE**

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2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

## COOLER RECEIPT FORM

Client Name: <u>EDISON</u>				
Project Name:				
AETL Job Number: <u>BBK0280</u>				
Date Received: <u>11/18/2020</u>		Received by: <u>Sargis Pireh</u>		
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSL <input type="checkbox"/> FedEx <input type="checkbox"/> UPS				
<input type="checkbox"/> Others:				
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>  </u> ) <input type="checkbox"/> Other (Specify):				
Inside temperature of shipping container No 1: <u>3.3°C</u> , No 2:   , No 3:				
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):				
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice				
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH, <input type="checkbox"/> NaHSO <sub>4</sub>				
<input type="checkbox"/> Other (Specify):				
	Yes	No*	N/A	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>			
2. Are Sample labels legible & indelible ink?	<input checked="" type="checkbox"/>			
3. Do samples match the COC?	<input checked="" type="checkbox"/>			
4. Are the required analyses clear?	<input checked="" type="checkbox"/>			
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>			
6. Does cooler or samples have custody seal(s)?			<u>N/A</u>	
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>			
8. Are samples preserved?	<input checked="" type="checkbox"/>			
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>			
10. Are the VOAs free of headspace?			<u>N/A</u>	
11. Are the jars free of headspace?	<input checked="" type="checkbox"/>			
* = see note below. N/A = Not Applicable				

**PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.**

**\*Explain all "No" answers for above questions:**

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/08/2020 11:52
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## Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.  
Results for EPA Method 8082 has been reported based on dry weight.

No analytical non-conformances were encountered.  
Qualifiers are noted in the report.

Title 22 Metals analyses were performed by Positive Lab Services.



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## Samples Received

**AETL received the following samples on 11/18/2020 with the following specifications**

Project Name: Downey Substation  
Site: 11228 Brookshire Ave.  
Downey, CA 90241

<b>Client ID</b> HA3-Comp	<b>Sample Date</b> 11/17/2020 0:00
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<b>Lab ID</b> BBK0280-15	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 3
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<b>Analysis</b> EPA 6010B-STLC As	<b>Units</b> mg/L	<b>TAT</b> 5
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<b>Client ID</b> C3	<b>Sample Date</b> 11/17/2020 10:35
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<b>Lab ID</b> BBK0280-18	<b>Matrix</b> Concrete	<b>Quantity of Containers</b> 3
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<b>Analysis</b> EPA 8260B	<b>Units</b> mg/kg	<b>TAT</b> 5
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**Total Number of Samples received: 2**



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## Positive Hits Summary

Lab ID	Client ID					Received
BBK0280-15	HA3-Comp					11/18/2020 14:30
Method	Analyte	Result	Qualifier	Unit	Analyzed	
EPA 6010B-STLC As	Arsenic	1.30		mg/L	12/07/2020 18:10	



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## Analytical Results

**Client ID: HA3-Comp**

**Lab ID: BBK0280-15 (Soil)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### STLC Analysis

**Method: EPA 6010B-STLC As**

Arsenic	1.30		1	0.0500	mg/L	12/06/20 09:11	12/07/20 18:10	B0L0128	JR	Title 22
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## Analytical Results

**Client ID: C3**

**Lab ID: BBK0280-18 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Volatile Organic Compounds

**Method: EPA 8260B**

Acetone	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Benzene	ND		1	0.00100	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Bromobenzene (Phenyl bromide)	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Bromochloromethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Bromodichloromethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Bromoform (Tribromomethane)	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Bromomethane (Methyl bromide)	ND		1	0.0150	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
2-Butanone (MEK)	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
n-Butylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
sec-Butylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
tert-Butylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Carbon Disulfide	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Carbon tetrachloride	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Chlorobenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Chloroethane	ND		1	0.0150	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
2-Chloroethyl vinyl ether	ND		1	0.0500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Chloroform (Trichloromethane)	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Chloromethane (Methyl chloride)	ND		1	0.0150	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
2-Chlorotoluene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
4-Chlorotoluene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Dibromochloromethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,2-Dibromoethane (EDB)	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Dibromomethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,2-Dichlorobenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,3-Dichlorobenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,4-Dichlorobenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Dichlorodifluoromethane	ND		1	0.0150	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,1-Dichloroethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,2-Dichloroethane (EDC)	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,1-Dichloroethene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
cis-1,2-Dichloroethene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
trans-1,2-Dichloroethene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
1,2-Dichloropropane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030

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## Analytical Results

**Client ID: C3**

**Lab ID: BBK0280-18 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Volatile Organic Compounds (Continued)

1,3-Dichloropropane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
2,2-Dichloropropane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,1-Dichloropropene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
cis-1,3-Dichloropropene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
trans-1,3-Dichloropropene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Ethylbenzene	ND		1	0.00100	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Hexachlorobutadiene	ND		1	0.0150	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
2-Hexanone	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Iodomethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Isopropylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
p-Isopropyltoluene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
4-Methyl-2-pentanone (MIBK)	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Methyl-tert-butyl ether (MTBE)	ND		1	0.00200	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Methylene chloride (DCM)	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Naphthalene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
n-Propylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Styrene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,1,1,2-Tetrachloroethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,1,2,2-Tetrachloroethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Tetrachloroethene	ND		1	0.00200	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Toluene (Methyl benzene)	ND		1	0.00100	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,2,3-Trichlorobenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,2,4-Trichlorobenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,1,1-Trichloroethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,1,2-Trichloroethane	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Trichloroethene	ND		1	0.00150	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Trichlorofluoromethane	ND		1	0.0100	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,2,3-Trichloropropane	ND		1	0.00100	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,2,4-Trimethylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
1,3,5-Trimethylbenzene	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Vinyl Acetate	ND		1	0.0250	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
Vinyl chloride (Chloroethene)	ND		1	0.00500	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
o-Xylene	ND		1	0.00100	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
m,p-Xylenes	ND		1	0.00100	mg/kg	12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030
	Recovery			Acceptance Criteria						
<i>Surrogate: Bromofluorobenzene</i>	118%			75-125		12/04/20 08:34	12/04/20 14:43	BOL0103	PI	5030

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--	--	--

## Analytical Results

Client ID: C3

Lab ID: BBK0280-18 (Concrete)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
<b>Volatile Organic Compounds (Continued)</b>										
Surrogate: Dibromofluoromethane	62.9%			75-125		12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030
Surrogate: Toluene-d8	103%			75-125		12/04/20 08:34	12/04/20 14:43	B0L0103	PI	5030



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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**Batch: B0L0103 - 5030**

Method Blank (B0L0103-BLK1)

Prepared: 12/04/2020 10:34

Analyzed: 12/04/2020 14:02

Acetone	ND	0.0250	mg/kg							
Benzene	ND	0.00100	mg/kg							
Bromobenzene (Phenyl bromide)	ND	0.00500	mg/kg							
Bromochloromethane	ND	0.00500	mg/kg							
Bromodichloromethane	ND	0.00500	mg/kg							
Bromoform (Tribromomethane)	ND	0.0250	mg/kg							
Bromomethane (Methyl bromide)	ND	0.0150	mg/kg							
2-Butanone (MEK)	ND	0.0250	mg/kg							
n-Butylbenzene	ND	0.00500	mg/kg							
sec-Butylbenzene	ND	0.00500	mg/kg							
tert-Butylbenzene	ND	0.00500	mg/kg							
Carbon Disulfide	ND	0.0250	mg/kg							
Carbon tetrachloride	ND	0.00500	mg/kg							
Chlorobenzene	ND	0.00500	mg/kg							
Chloroethane	ND	0.0150	mg/kg							
2-Chloroethyl vinyl ether	ND	0.0500	mg/kg							
Chloroform (Trichloromethane)	ND	0.00500	mg/kg							
Chloromethane (Methyl chloride)	ND	0.0150	mg/kg							
2-Chlorotoluene	ND	0.00500	mg/kg							
4-Chlorotoluene	ND	0.00500	mg/kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00500	mg/kg							
Dibromochloromethane	ND	0.00500	mg/kg							
1,2-Dibromoethane (EDB)	ND	0.00500	mg/kg							
Dibromomethane	ND	0.00500	mg/kg							
1,2-Dichlorobenzene	ND	0.00500	mg/kg							
1,3-Dichlorobenzene	ND	0.00500	mg/kg							
1,4-Dichlorobenzene	ND	0.00500	mg/kg							
Dichlorodifluoromethane	ND	0.0150	mg/kg							
1,1-Dichloroethane	ND	0.00500	mg/kg							
1,2-Dichloroethane (EDC)	ND	0.00500	mg/kg							
1,1-Dichloroethene	ND	0.00500	mg/kg							
cis-1,2-Dichloroethene	ND	0.00500	mg/kg							
trans-1,2-Dichloroethene	ND	0.00500	mg/kg							
1,2-Dichloropropane	ND	0.00500	mg/kg							
1,3-Dichloropropane	ND	0.00500	mg/kg							
2,2-Dichloropropane	ND	0.00500	mg/kg							
1,1-Dichloropropene	ND	0.00500	mg/kg							
cis-1,3-Dichloropropene	ND	0.00500	mg/kg							
trans-1,3-Dichloropropene	ND	0.00500	mg/kg							
Ethylbenzene	ND	0.00100	mg/kg							
Hexachlorobutadiene	ND	0.0150	mg/kg							
2-Hexanone	ND	0.0250	mg/kg							



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BBK0280 Project Number: IO# 346292 Attention: Ryan Castillo Project Name: WCI- Northstar	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 12/08/2020 11:52
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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0L0103 - 5030 (Continued)</b>				<b>Prepared: 12/04/2020 10:34</b>						
Method Blank (BOL0103-BLK1)				<b>Analyzed: 12/04/2020 14:02</b>						
Iodomethane	ND	0.00500	mg/kg							
Isopropylbenzene	ND	0.00500	mg/kg							
p-Isopropyltoluene	ND	0.00500	mg/kg							
4-Methyl-2-pentanone (MIBK)	ND	0.0250	mg/kg							
Methyl-tert-butyl ether (MTBE)	ND	0.00200	mg/kg							
Methylene chloride (DCM)	ND	0.0250	mg/kg							
Naphthalene	ND	0.00500	mg/kg							
n-Propylbenzene	ND	0.00500	mg/kg							
Styrene	ND	0.00500	mg/kg							
1,1,1,2-Tetrachloroethane	ND	0.00500	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/kg							
Tetrachloroethene	ND	0.00200	mg/kg							
Toluene (Methyl benzene)	ND	0.00100	mg/kg							
1,2,3-Trichlorobenzene	ND	0.00500	mg/kg							
1,2,4-Trichlorobenzene	ND	0.00500	mg/kg							
1,1,1-Trichloroethane	ND	0.00500	mg/kg							
1,1,2-Trichloroethane	ND	0.00500	mg/kg							
Trichloroethene	ND	0.00150	mg/kg							
Trichlorofluoromethane	ND	0.0100	mg/kg							
1,2,3-Trichloropropane	ND	0.00100	mg/kg							
1,2,4-Trimethylbenzene	ND	0.00500	mg/kg							
1,3,5-Trimethylbenzene	ND	0.00500	mg/kg							
Vinyl Acetate	ND	0.0250	mg/kg							
Vinyl chloride (Chloroethene)	ND	0.00500	mg/kg							
o-Xylene	ND	0.00100	mg/kg							
m,p-Xylenes	ND	0.00100	mg/kg							
<i>Surrogate: Bromofluorobenzene</i>	<i>51.0</i>		<i>ug/kg</i>	<i>50.0</i>		<i>102</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.8</i>		<i>ug/kg</i>	<i>50.0</i>		<i>106</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>ug/kg</i>	<i>50.0</i>		<i>98.1</i>	<i>75-125</i>			



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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0L0103 - 5030 (Continued)</b>				<b>Prepared: 12/04/2020 10:34</b>						
LCS (B0L0103-BS1)				<b>Analyzed: 12/04/2020 12:01</b>						
Benzene	46.2		ug/kg	50.0		92.3	75-125			
Carbon tetrachloride	43.8		ug/kg	50.0		87.7	75-125			
Chlorobenzene	52.1		ug/kg	50.0		104	75-125			
Chloroform (Trichloromethane)	49.6		ug/kg	50.0		99.2	75-125			
1,2-Dichlorobenzene	53.0		ug/kg	50.0		106	75-125			
1,1-Dichloroethane	45.9		ug/kg	50.0		91.9	75-125			
1,1-Dichloroethene	41.1		ug/kg	50.0		82.2	75-125			
cis-1,2-Dichloroethene	51.7		ug/kg	50.0		103	75-125			
Ethylbenzene	46.7		ug/kg	50.0		93.4	75-125			
Isopropylbenzene	43.9		ug/kg	50.0		87.8	75-125			
Methyl-tert-butyl ether (MTBE)	55.3		ug/kg	50.0		111	75-125			
n-Propylbenzene	44.9		ug/kg	50.0		89.8	75-125			
Toluene (Methyl benzene)	47.9		ug/kg	50.0		95.8	75-125			
1,1,1-Trichloroethane	44.4		ug/kg	50.0		88.7	75-125			
1,1,2-Trichloroethane	61.7		ug/kg	50.0		123	75-125			
Trichloroethene	47.1		ug/kg	50.0		94.3	75-125			
1,2,4-Trimethylbenzene	49.1		ug/kg	50.0		98.3	75-125			
1,3,5-Trimethylbenzene	46.4		ug/kg	50.0		92.8	75-125			
o-Xylene	48.7		ug/kg	50.0		97.4	75-125			
m,p-Xylenes	92.9		ug/kg	100		92.9	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>48.9</i>		<i>ug/kg</i>	<i>50.0</i>		<i>97.9</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.2</i>		<i>ug/kg</i>	<i>50.0</i>		<i>102</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>47.5</i>		<i>ug/kg</i>	<i>50.0</i>		<i>95.0</i>	<i>75-125</i>			

### LCSD (B0L0103-BSD1)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
				<b>Analyzed: 12/04/2020 12:42</b>						
Benzene	46.8		ug/kg	50.0		93.5	75-125	1.31	20	
Carbon tetrachloride	43.7		ug/kg	50.0		87.4	75-125	<1.00	20	
Chlorobenzene	53.0		ug/kg	50.0		106	75-125	1.73	20	
Chloroform (Trichloromethane)	50.2		ug/kg	50.0		100	75-125	1.24	20	
1,2-Dichlorobenzene	55.2		ug/kg	50.0		110	75-125	3.96	20	
1,1-Dichloroethane	45.4		ug/kg	50.0		90.7	75-125	1.27	20	
1,1-Dichloroethene	42.9		ug/kg	50.0		85.8	75-125	4.26	20	
cis-1,2-Dichloroethene	53.0		ug/kg	50.0		106	75-125	2.37	20	
Ethylbenzene	47.6		ug/kg	50.0		95.2	75-125	1.82	20	
Isopropylbenzene	45.5		ug/kg	50.0		91.0	75-125	3.60	20	
Methyl-tert-butyl ether (MTBE)	55.2		ug/kg	50.0		110	75-125	<1.00	20	
n-Propylbenzene	46.0		ug/kg	50.0		92.0	75-125	2.38	20	
Toluene (Methyl benzene)	47.5		ug/kg	50.0		95.0	75-125	<1.00	20	
1,1,1-Trichloroethane	44.4		ug/kg	50.0		88.7	75-125	<1.00	20	
1,1,2-Trichloroethane	62.6		ug/kg	50.0		125	75-125	1.40	20	
Trichloroethene	46.4		ug/kg	50.0		92.8	75-125	1.58	20	
1,2,4-Trimethylbenzene	51.3		ug/kg	50.0		103	75-125	4.36	20	

*The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. No duplication of this report is allowed, except in its entirety without written approval of the laboratory.*



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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0L0103 - 5030 (Continued)</b>				<b>Prepared: 12/04/2020 10:34</b>						
LCSD (B0L0103-BSD1)				<b>Analyzed: 12/04/2020 12:42</b>						
1,3,5-Trimethylbenzene	48.1		ug/kg	50.0		96.2	75-125	3.56	20	
o-Xylene	50.0		ug/kg	50.0		100	75-125	2.70	20	
m,p-Xylenes	93.5		ug/kg	100		93.5	75-125	<1.00	20	
<i>Surrogate: Bromofluorobenzene</i>	<i>49.5</i>		<i>ug/kg</i>	<i>50.0</i>		<i>98.9</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.4</i>		<i>ug/kg</i>	<i>50.0</i>		<i>105</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>ug/kg</i>	<i>50.0</i>		<i>96.5</i>	<i>75-125</i>			



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## Quality Control Results

### STLC Analysis (EPA 6010B-STLC As)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0L0128 - Title 22</b>				<b>Prepared: 12/06/2020 09:11</b>						
Method Blank (B0L0128-BLK1)				<b>Analyzed: 12/07/2020 17:59</b>						
Arsenic	ND	0.0500	mg/L							





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## Quality Control Results

### STLC Analysis (EPA 6010B-STLC As)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B0L0128 - Title 22 (Continued)</b>				<b>Prepared: 12/06/2020 09:11</b>						
LCS (B0L0128-BS1)				<b>Analyzed: 12/07/2020 18:03</b>						
Arsenic	9.27	0.0500	mg/L	10.0		92.7	75-125			
LCSD (B0L0128-BSD1)				<b>Analyzed: 12/07/2020 18:05</b>						
Arsenic	9.63	0.0500	mg/L	10.0		96.3	75-125	3.78	15	



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## Qualifiers and Definitions

ITEM	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference



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SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction



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## Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			No subcontracted Samples found in data set.

## Waste Characterization Investigation Report

Project Name: Downey Sub Regulator Replacements Report Date: 1/15/2021  
 Report Requester: Christian Fausto SAP/WO Number: 903099212  
 WCI Contact: Ryan Castillo Phone: (626) 656-0453  
 Field Env. Advisor: Michael Coppola Phone: (310) 270-6506  
 Project Description: Replace 4 kV Regulator at Pos. 11

Waste with Special Handling Requirements? Yes  No

Material	Hazardous	PCB Waste (>50 ppm)	Non-Hazardous	Eligible for Recycling?	Area	SCE-Approved Disposal Facility
Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All project soil	Disposal - Vulcan Materials Company 11520 Sheldon Street, Sun Valley, CA 91352 Reach out to WCI contact for scheduling  Disposal - Sunshine Canyon Landfill 14747 San Fernando Road, Sylmar, CA 91342 Reach out to WCI contact for scheduling
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Area 1	Disposal - Sunshine Canyon Landfill 14747 San Fernando Road, Sylmar, CA 91342 Reach out to WCI contact for scheduling  Disposal - Simi Valley Landfill 2801 Madera Road, Simi Valley, CA 93065 Reach out to WCI contact for scheduling
Concrete	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	All remaining concrete	Recycling - Hanson Aggregates 6956 Cherry Avenue North Long Beach, CA 90805 (800) 300-6120  Disposal - Sunshine Canyon Landfill 14747 San Fernando Road, Sylmar, CA 91342 Reach out to WCI contact for scheduling

Attachments:

- A. Site plan showing sample locations
- C. Photos
- B. Laboratory data tables
- D. Laboratory analytical report

**Notes:**

Ensure disposal facility agrees to accept waste prior to shipping! Coordinate with WCI contact if needed.

If the contractor would like to use a disposal facility not recommended on this cover page, they must get written approval from Field Env. Advisor or WCI contact.




Soil is non-hazardous but above arsenic screening levels, and must be sent to a facility listed as 'disposal'. Concrete in Area 1 is TPH impacted but eligible for disposal. All remaining concrete is eligible for recycling or disposal. If sending waste to a facility listed as 'disposal', reach out to the WCI contact for assistance in gaining entry to one of the disposal facilities listed above at least one week prior to shipping waste. Delays in this may cause delays in shipping. The facility listed as 'recycling' does not require profiling, and therefore should not need assistance to gain entry, but calling the facility prior to shipping is strongly recommended. Use of facilities outside of those referenced on this page requires written approval from the WCI contact or listed Field Environmental Advisor.

# ***Attachment A***

*Site Plan Showing Sampling Locations*



**Legend**

-  Soil/Hand Auger Sampling Location
-  Concrete Sampling Location
-  Area 1 – Concrete is TPH impacted and must be shipped to a disposal facility

**REFERENCE:**  
Southern California Edison  
Downey Substation  
Demolition Plan, 535319 Rev. 1

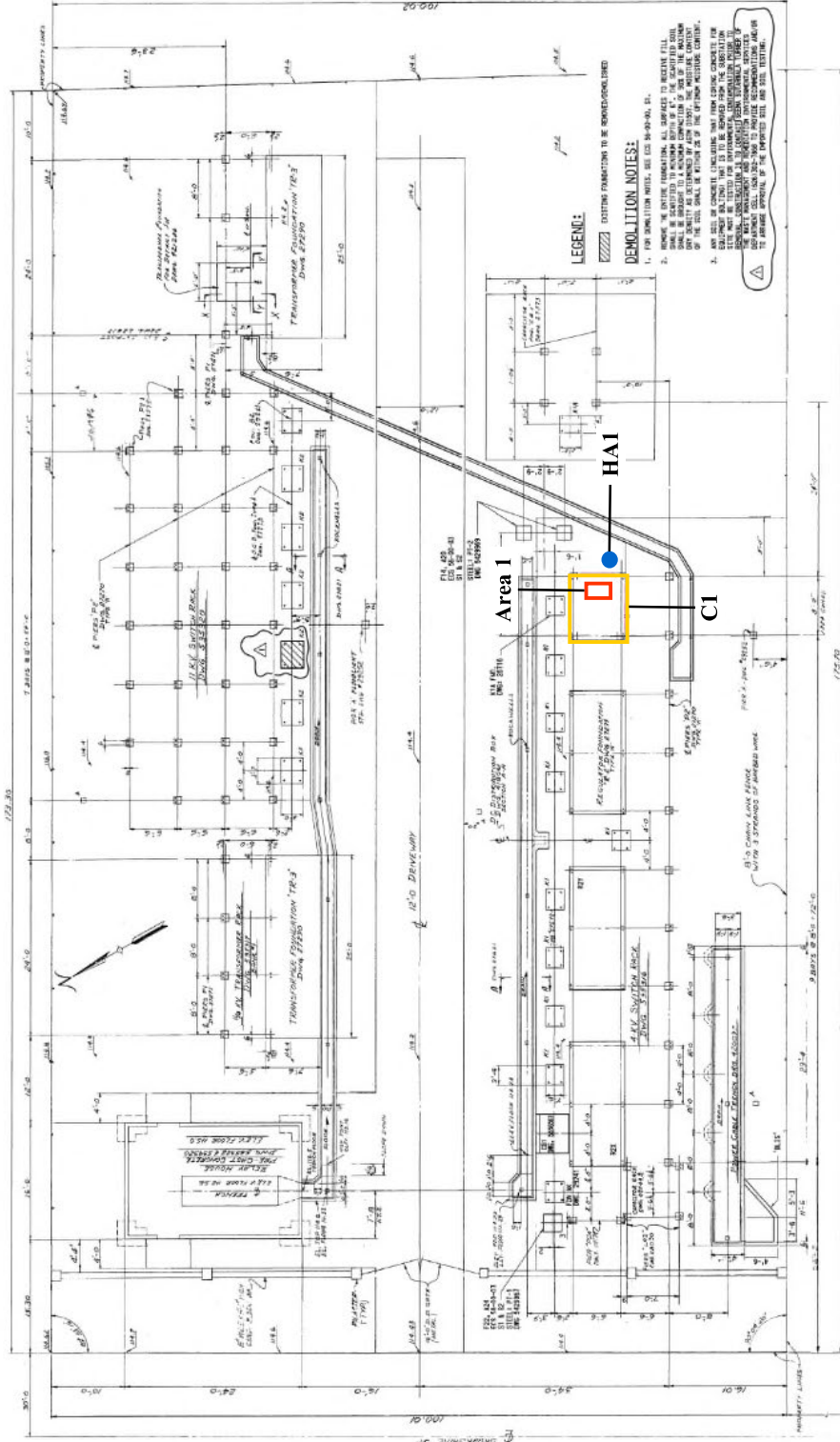
Figure 1

**Site Plan Showing Sampling Locations**

Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241



**RUBICON**  
Engineering Corporation



# ***Attachment B***

## ***Laboratory Data Table***



## Attachment B - Laboratory Data Table

### Downey Substation

11228 Brookshire Ave.  
Downey, CA 90241

Sample Identification:	C1	HA1-0.5	HA1-2.0	HA1-Comp	Screening Levels	Waste Screening Limits		
	Concrete	Soil	Soil	Soil		TTLC	STLC x10	TCLP x20
Date Sampled:	1/7/21	1/7/21	1/7/21	1/7/21				
Sample Depth (ft):	Surface	0.5	2.0	****				
<b>TPH by EPA 8015G/D</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TPH Purgeable (C4 to C12)	<10.0	-	-	<10.0	110	-	-	-
TPH Extractable (C13 to C22)	2,950	-	-	<10.0	2,500	-	-	-
TPH as Heavy Hydrocarbons (C23 to C40)	7,590	-	-	<100.0	2,500	-	-	-
<b>Title 22 Metals by EPA 6010B/7000</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Antimony	-	-	-	<5.00	470	500	150	-
Arsenic	-	-	-	40.2	12	500	50	100
Barium	-	-	-	112	220,000	10,000	1,000	2,000
Beryllium	-	-	-	<2.50	210*	75	8	-
Cadmium	-	-	-	<2.50	7.3*	100	10	20
Chromium	-	-	-	16.0	170,000*	2,500	50	100
Cobalt	-	-	-	9.35	350	8,000	800	-
Copper	-	-	-	23.8	47,000	2,500	250	-
Lead	-	-	-	12.5	320*	1,000	50	100
Mercury	-	-	-	<0.200	4.5*	20	2	4
Molybdenum	-	-	-	<5.00	5,800	3,500	3,500	-
Nickel	-	-	-	13.5	3,100*	2,000	200	-
Selenium	-	-	-	<5.00	5,800	100	10	20
Silver	-	-	-	<5.00	1,500*	500	50	100
Thallium	-	-	-	<5.00	12	700	70	-
Vanadium	-	-	-	34.5	1,000*	2,400	240	-
Zinc	-	-	-	66.0	350,000	5,000	2,500	-
<b>PCBs by EPA 8082</b>	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Aroclor-1016 (PCB-1016)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1221 (PCB-1221)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1232 (PCB-1232)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1242 (PCB-1242)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1248 (PCB-1248)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1254 (PCB-1254)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1260 (PCB-1260)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1262 (PCB-1262)	<1.0	<1.0	<1.0	-	1.0	50	50	-
Aroclor-1268 (PCB-1268)	<1.0	<1.0	<1.0	-	1.0	50	50	-

**NOTES:**

mg/kg: Milligrams per kilogram (parts per million)

µg/kg: Micrograms per kilogram (parts per billion)

<: Not detected at or above the indicated laboratory practical quantitation limit (PQL)

-: Not analyzed or not available

PCB: WCI Program Screening Level

STLC: Soluble Threshold Limit Concentration

TCLP: Toxicity Characteristic Leaching Procedure

TPH: Total Petroleum Hydrocarbons

TTLC: Total Threshold Limit Concentration

Screening Levels:

TPH: EPA Region 9 Industrial Regional Screening Levels (RSLs), lowest value chosen between Aliphatic/Aromatic

Metals: Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO)

Industrial Human Health Risk Assessment (HHRA) values denoted by \*, all other values EPA Region 9 RSLs

Arsenic: DTSC Regional Background Concentration

PCBs: DTSC HERO Industrial HHRA value denoted by \*, all other values EPA Region 9 RSLs

Screening Level Exceedance	
Hazardous Waste Criteria Exceedance	
Hazardous Waste	

\*\*\*\* - This is a composite sample created in the laboratory by homogenizing aliquots of equal size from discrete samples collected at 0.5, 2.0, 3.5, and 5.0 feet below ground surface.

**Attachment B - Laboratory Data Table  
Downey Substation**

11228 Brookshire Ave.  
Downey, CA 90241

Sample Identification:	C1	Screening Levels	Waste Screening Limits		
	Concrete		TTL	STLC x10	TCLP x20
Sample Matrix:	Concrete				
Date Sampled:	1/7/21				
VOCs by EPA 8260B	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acetone	0.366	-	-	-	-
Benzene	<0.001	-	-	-	10
Bromobenzene (Phenyl bromide)	<0.005	-	-	-	-
Bromochloromethane	<0.005	-	-	-	-
Bromodichloromethane	<0.005	-	-	-	-
Bromoform (Tribromomethane)	<0.025	-	-	-	-
Bromomethane (Methyl bromide)	<0.015	-	-	-	-
2-Butanone (MEK)	0.104	-	-	-	-
n-Butylbenzene	<0.005	-	-	-	-
sec-Butylbenzene	<0.005	-	-	-	-
tert-Butylbenzene	<0.005	-	-	-	-
Carbon Disulfide	<0.025	-	-	-	-
Carbon tetrachloride	<0.005	-	-	-	10
Chlorobenzene	<0.005	-	-	-	2,000
Chloroethane	<0.015	-	-	-	-
2-Chloroethyl vinyl ether	<0.05	-	-	-	-
Chloroform (Trichloromethane)	<0.005	-	-	-	120
Chloromethane (Methyl chloride)	<0.015	-	-	-	-
2-Chlorotoluene	<0.005	-	-	-	-
4-Chlorotoluene	<0.005	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	<0.005	-	-	-	-
Dibromochloromethane	<0.005	-	-	-	-
1,2-Dibromoethane (EDB)	<0.005	-	-	-	-
Dibromomethane	<0.005	-	-	-	-
1,2-Dichlorobenzene	<0.005	-	-	-	-
1,3-Dichlorobenzene	<0.005	-	-	-	-
1,4-Dichlorobenzene	<0.005	-	-	-	150
Dichlorodifluoromethane	<0.015	-	-	-	-
1,1-Dichloroethane	<0.005	-	-	-	-
1,2-Dichloroethane (EDC)	<0.005	-	-	-	10
1,1-Dichloroethene	<0.005	-	-	-	14
cis-1,2-Dichloroethene	<0.005	-	-	-	-
trans-1,2-Dichloroethene	<0.005	-	-	-	-
1,2-Dichloropropane	<0.005	-	-	-	-
1,3-Dichloropropane	<0.005	-	-	-	-
2,2-Dichloropropane	<0.005	-	-	-	-
1,1-Dichloropropene	<0.005	-	-	-	-
cis-1,3-Dichloropropene	<0.005	-	-	-	-
trans-1,3-Dichloropropene	<0.005	-	-	-	-
Ethylbenzene	<0.001	-	-	-	-
Hexachlorobutadiene	<0.015	-	-	-	-
2-Hexanone	0.146	-	-	-	-
Iodomethane	<0.005	-	-	-	-
Isopropylbenzene	<0.005	-	-	-	-
p-Isopropyltoluene	<0.005	-	-	-	-
4-Methyl-2-pentanone (MIBK)	0.0386	-	-	-	-
Methyl-tert-butyl ether (MTBE)	<0.002	-	-	-	-
Methylene chloride (DCM)	<0.025	-	-	-	-
Naphthalene	<0.005	-	-	-	-
n-Propylbenzene	<0.005	-	-	-	-
Styrene	<0.005	-	-	-	-
1,1,1,2-Tetrachloroethane	<0.005	-	-	-	-
1,1,2,2-Tetrachloroethane	<0.005	-	-	-	-
Tetrachloroethene	<0.002	-	-	-	14
Toluene (Methyl benzene)	0.00224	-	-	-	-
1,2,3-Trichlorobenzene	<0.005	-	-	-	-
1,2,4-Trichlorobenzene	<0.005	-	-	-	-
1,1,1-Trichloroethane	<0.005	-	-	-	-
1,1,2-Trichloroethane	<0.005	-	-	-	-
Trichloroethene	<0.0015	-	-	-	10
Trichlorofluoromethane	<0.01	-	-	-	-
1,2,3-Trichloropropane	<0.001	-	-	-	-
1,2,4-Trimethylbenzene	<0.005	-	-	-	-
1,3,5-Trimethylbenzene	<0.005	-	-	-	-
Vinyl Acetate	<0.025	-	-	-	-
Vinyl chloride (Chloroethene)	<0.005	-	-	-	4
o-Xylene	<0.001	-	-	-	-
m,p-Xylenes	0.00150	-	-	-	-

**NOTES:**

mg/kg: Milligrams per kilogram (parts per million)

µg/kg: Micrograms per kilogram (parts per billion)

<: Not detected at or above the indicated laboratory practical quantitation limit (PQL)

-: Not analyzed or not available

STLC: Soluble Threshold Limit Concentration

TCLP: Toxicity Characteristic Leaching Procedure

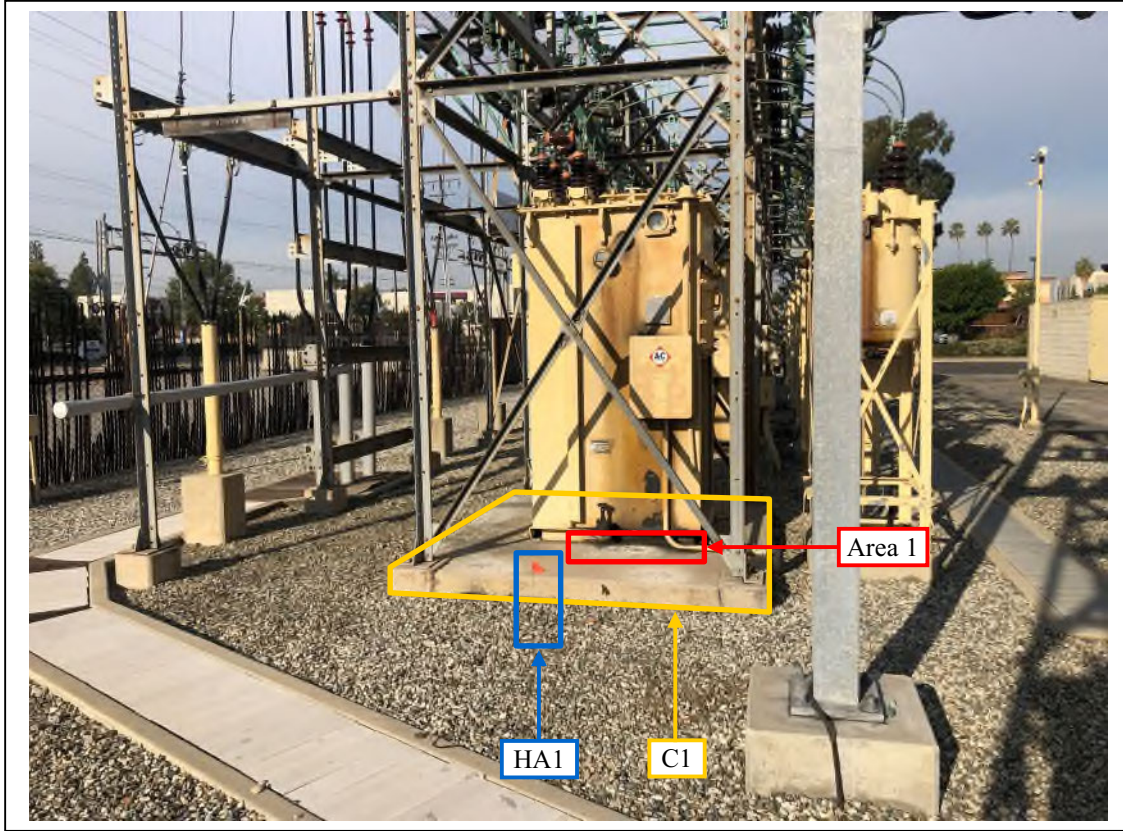
TTL: Total Threshold Limit Concentration

VOCs: Volatile Organic Compounds

Screening Level Exceedance	
Hazardous Waste Criteria Exceedance	
Hazardous Waste	

# *Attachment C*

*Photos*



**Photograph #1**

**Description of Photograph:**

Sample location HA1 and C1 facing northwest

**Site Location:**

Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241

**Photo Taken By:**

Hector Munoz Martinez

**Date of Photograph:**

January 7, 2021

# ***Attachment D***

*Laboratory Analytical Report*



## AMERICAN ENVIRONMENTAL TESTING LABORATORY

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January 11, 2021

AETL Job No: BCA0026  
Received Date: 01/07/2021  
Project Number: IO# 347354

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768  
Telephone: (909) 274-1646

Attention: Ryan Castillo

Project Name: Downey Sub Regulator Replacments  
Site: Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Christine Novshadayan  
Project Manager

Approved By:

Jim Lin  
Project Manager

## Table of Contents

Client Project Name: WCI- Rubicon (IO# 347354)  
Work Order Number: BCA0026

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
--	--	--

## Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 3.2 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y





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# CHAIN OF CUSTODY RECORD

## 121329

AETL JOB No. **BCA0026**

Page 1 of 1

**COMPANY** Rubicon Engineering Corporation  
**PROJECT MANAGER** Ryan Castillo  
**PHONE** (310) 575-0081  
**COMPANY ADDRESS** 12951 Newport Ave. Ste 200, Tustin, CA  
**EMAIL** (714) 575-0082  
**PROJECT #** Downey Sub Regulator Replacements  
**PO #** Downey Substation  
**SITE NAME AND ADDRESS** 11228 Brookshire Ave., Downey, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
HAI-0.5	BCA0026.01	11/7/2021	8:15	Soil	1 Jar		TPH BOD5 PCBs 8082	WCI ID# 317354 Soil Plat: 1.0 mg/kg Concrete Plat: 1.0 mg/kg Soil composite depths: 0.5, 2.0, 3.5, 5.0
HAI-2.0	BCA0026.02		8:20				X Moisture	
HAI-3.5	BCA0026.03		8:25				X	
HAI-5.0	BCA0026.04		8:50				X	
CI	BCA0026.05		8:40	Concrete Jar			X	Hold for PCBs
HAI-Camp	BCA0026.06			Soil			X	Can out of 4oz Jar

**TOTAL NUMBER OF CONTAINERS:** 6

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

**RELINQUISHED BY SAMPLER:** 1. Signature: [Signature], Printed Name: [Name], Date: [Date]  
 2. Signature: [Signature], Printed Name: [Name], Date: [Date]  
 3. Signature: [Signature], Printed Name: [Name], Date: [Date]

**TURN AROUND TIME**  
 NORMAL  SAME DAY RUSH  NEXT DAY RUSH   
 2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH

**DATA DELIVERABLE REQUIRED**  
 HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

**TRIBUTION:** WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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## COOLER RECEIPT FORM

Client Name: <u>EDISON</u>				
Project Name:				
AETL Job Number: <u>BCA0026</u>				
Date Received: <u>1/7/21</u>		Received by: <u>Savrs Pireh</u>		
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSL <input type="checkbox"/> FedEx <input type="checkbox"/> UPS				
<input type="checkbox"/> Others:				
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>1</u> ) <input type="checkbox"/> Other (Specify):				
Inside temperature of shipping container No 1: <u>3.2°C</u> , No 2: _____, No 3: _____				
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):				
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice				
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH, <input type="checkbox"/> NaHSO <sub>4</sub>				
<input type="checkbox"/> Other (Specify):				
	<b>Yes</b>	<b>No*</b>	<b>N/A</b>	<b>Name, if client was notified.</b>
1. Are the COCs Correct?	✓			
2. Are Sample labels legible & indelible ink?	✓			
3. Do samples match the COC?	✓			
4. Are the required analyses clear?	✓			
5. Is there enough samples for required analysis?	✓			
6. Does cooler or samples have custody seal(s)?			N/A	
7. Are sample containers in good condition?	✓			
8. Are samples preserved?	✓			
9. Are samples preserved properly for the intended analysis?	✓			
10. Are the VOAs free of headspace?			N/A	
11. Are the jars free of headspace?	✓			
* = see note below. N/A = Not Applicable				

**PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.**

\*Explain all "No" answers for above questions:

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
--	--	--

## Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight. Results for EPA Method 8082 has been reported based on dry weight.

No analytical non-conformances were encountered. Qualifiers are noted in the report.



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--	--	--

## Samples Received

**AETL received the following samples on 01/07/2021 with the following specifications**

Project Name: Downey Substation		
Site: 11228 Brookshire Ave. Downey, CA 90241		
<b>Client ID</b> HA1-0.5'		<b>Sample Date</b> 01/7/2021 8:15
<b>Lab ID</b> BCA0026-01	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 2
<b>Analysis</b> ASTM D2216 EPA 8082	<b>Units</b> % wt mg/kg	<b>TAT</b> 4 4
<b>Client ID</b> HA1-2.0'		<b>Sample Date</b> 01/7/2021 8:20
<b>Lab ID</b> BCA0026-02	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 2
<b>Analysis</b> ASTM D2216 EPA 8082	<b>Units</b> % wt mg/kg	<b>TAT</b> 4 4
<b>Client ID</b> C1		<b>Sample Date</b> 01/6/2021 8:40
<b>Lab ID</b> BCA0026-05	<b>Matrix</b> Concrete	<b>Quantity of Containers</b> 3
<b>Analysis</b> ASTM D2216 EPA 8015B TPH DRO/OF EPA 8015B TPH GRO EPA 8082	<b>Units</b> % wt mg/kg mg/kg mg/kg	<b>TAT</b> 4 4 4 4



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## Samples Received (Continued)

**AETL received the following samples on 01/07/2021 with the following specifications**

Project Name: Downey Substation Site: 11228 Brookshire Ave. Downey, CA 90241		
<b>Client ID</b> HA1-Comp		<b>Sample Date</b> 01/7/2021 0:00
<b>Lab ID</b> BCA0026-06	<b>Matrix</b> Soil	<b>Quantity of Containers</b> 2
<b>Analysis</b>	<b>Units</b>	<b>TAT</b>
EPA 6010B	mg/kg	4
EPA 7471A	mg/kg	4
EPA 8015B TPH DRO/OF	mg/kg	4
EPA 8015B TPH GRO	mg/kg	4
<b>Total Number of Samples received:</b>		<b>4</b>



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
--	--	--

## Positive Hits Summary

Lab ID	Client ID				Received
<b>BCA0026-01</b>	HA1-0.5'				01/07/2021 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	13.0		% wt	01/08/2021 09:25
<b>BCA0026-02</b>	HA1-2.0'				01/07/2021 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
ASTM D2216	Moisture Content	14.2		% wt	01/08/2021 09:25
<b>BCA0026-05</b>	C1				01/07/2021 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8015B TPH DRO/ORO	TPH as Diesel (C13-C22)	2950		mg/kg	01/07/2021 16:01
EPA 8015B TPH DRO/ORO	TPH as Heavy Hydrocarbons (C23-40)	7590		mg/kg	01/07/2021 16:01
EPA 8015B TPH DRO/ORO	TPH Total as Diesel and Heavy HC (C13-C40)	10500		mg/kg	01/07/2021 16:01
ASTM D2216	Moisture Content	2.37		% wt	01/08/2021 09:25
<b>BCA0026-06</b>	HA1-Comp				01/07/2021 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 6010B	Arsenic	40.2		mg/kg	01/08/2021 12:10
EPA 6010B	Barium	112		mg/kg	01/08/2021 12:10
EPA 6010B	Chromium	16.0		mg/kg	01/08/2021 12:10
EPA 6010B	Cobalt	9.35		mg/kg	01/08/2021 12:10
EPA 6010B	Copper	23.8		mg/kg	01/08/2021 12:10
EPA 6010B	Lead	12.5		mg/kg	01/08/2021 12:10
EPA 6010B	Nickel	13.5		mg/kg	01/08/2021 12:10
EPA 6010B	Vanadium	34.5		mg/kg	01/08/2021 12:10
EPA 6010B	Zinc	66.0		mg/kg	01/08/2021 12:10



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
--	--	--

## Analytical Results

**Client ID:** HA1-0.5'  
**Lab ID:** BCA0026-01 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
---------	--------	-----------	----------	----	-------	--------------------	--------------------	-------	------------------	--------------

### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
		Recovery			Acceptance Criteria						
Surrogate: Decachlorobiphenyl	94.0%			30-150		01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	
Surrogate: Tetrachloro-m-xylene	107%			30-150		01/07/21 15:47	01/07/21 18:28	B1A0129	ATS	3550B	

### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	13.0		1	0.100	% wt	01/07/21 16:16	01/08/21 09:25	B1A0132	AZ	ASTM-D2216
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
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## Analytical Results

**Client ID:** HA1-2.0'  
**Lab ID:** BCA0026-02 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Recovery		Acceptance Criteria								
Surrogate: Decachlorobiphenyl	90.6%			30-150		01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B
Surrogate: Tetrachloro-m-xylene	102%			30-150		01/07/21 15:47	01/07/21 18:48	B1A0129	ATS	3550B

### Wet Chemistry Analysis

**Method: ASTM D2216**

Moisture Content	14.2		1	0.100	% wt	01/07/21 16:16	01/08/21 09:25	B1A0132	AZ	ASTM-D2216
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
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## Analytical Results

**Client ID: C1**

**Lab ID: BCA0026-05 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	01/07/21 13:54	01/07/21 20:38	B1A0124	PI	5030
		Recovery			Acceptance Criteria					
<i>Surrogate: Bromofluorobenzene</i>	118%			75-120		01/07/21 13:54	01/07/21 20:38	B1A0124	PI	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

TPH as Diesel (C13-C22)	2950		2	20.0	mg/kg	01/07/21 08:15	01/07/21 16:01	B1A0110	TTN	3550B
TPH as Heavy Hydrocarbons (C23-40)	7590		2	200	mg/kg	01/07/21 08:15	01/07/21 16:01	B1A0110	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	10500		2	200	mg/kg	01/07/21 08:15	01/07/21 16:01	B1A0110	TTN	3550B
		Recovery			Acceptance Criteria					
<i>Surrogate: Chlorobenzene</i>	80.8%			75-125		01/07/21 08:15	01/07/21 16:01	B1A0110	TTN	3550B

### PCBs

**Method: EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1221 (PCB-1221)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1232 (PCB-1232)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1242 (PCB-1242)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1248 (PCB-1248)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1254 (PCB-1254)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1260 (PCB-1260)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1262 (PCB-1262)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
Aroclor-1268 (PCB-1268)	ND		1	1.00	mg/kg dry	01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
		Recovery			Acceptance Criteria					
<i>Surrogate: Decachlorobiphenyl</i>	66.2%			30-150		01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B
<i>Surrogate: Tetrachloro-m-xylene</i>	63.3%			30-150		01/07/21 15:47	01/07/21 19:07	B1A0129	ATS	3550B



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
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## Analytical Results

Client ID: C1

Lab ID: BCA0026-05 (Concrete)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Wet Chemistry Analysis

Method: ASTM D2216

Moisture Content	2.37		1	0.100	% wt	01/07/21 16:16	01/08/21 09:25	B1A0132	AZ	ASTM-D2216
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## Analytical Results

**Client ID:** HA1-Comp  
**Lab ID:** BCA0026-06 (Soil)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Metals Total

**Method: EPA 6010B**

Antimony	ND		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Arsenic</b>	<b>40.2</b>		1	1.50	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Barium</b>	<b>112</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
Beryllium	ND		1	2.50	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
Cadmium	ND		1	2.50	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Chromium</b>	<b>16.0</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Cobalt</b>	<b>9.35</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Copper</b>	<b>23.8</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Lead</b>	<b>12.5</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
Molybdenum	ND		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Nickel</b>	<b>13.5</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
Selenium	ND		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
Silver	ND		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
Thallium	ND		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Vanadium</b>	<b>34.5</b>		1	5.00	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B
<b>Zinc</b>	<b>66.0</b>		1	2.50	mg/kg	01/08/21 09:50	01/08/21 12:10	B1A0141	JR	3050B

**Method: EPA 7471A**

Mercury	ND		1	0.200	mg/kg	01/08/21 08:37	01/08/21 10:38	B1A0150	JR	7471A
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### TPH Gasoline Range

**Method: EPA 8015B TPH GRO**

TPH as Gasoline and Light HC. (C4-C12)	ND		1	10.0	mg/kg	01/07/21 13:54	01/07/21 19:59	B1A0124	PI	5030
<i>Surrogate: Bromofluorobenzene</i>	<i>113%</i>	<i>Recovery</i>		<i>75-120</i>	<i>Acceptance Criteria</i>	01/07/21 13:54	01/07/21 19:59	B1A0124	PI	5030

### TPH Diesel Range

**Method: EPA 8015B TPH DRO/ORO**

TPH as Diesel (C13-C22)	ND		1	10.0	mg/kg	01/07/21 08:15	01/07/21 14:45	B1A0110	TTN	3550B
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
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## Analytical Results

**Client ID: HA1-Comp**

**Lab ID: BCA0026-06 (Soil)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
<b>TPH Diesel Range (Continued)</b>										
TPH as Heavy Hydrocarbons (C23-40)	ND		1	100	mg/kg	01/07/21 08:15	01/07/21 14:45	B1A0110	TTN	3550B
TPH Total as Diesel and Heavy HC (C13-C40)	ND		1	100	mg/kg	01/07/21 08:15	01/07/21 14:45	B1A0110	TTN	3550B
<hr/>										
	Recovery		Acceptance Criteria							
<i>Surrogate: Chlorobenzene</i>	87.0%			75-125		01/07/21 08:15	01/07/21 14:45	B1A0110	TTN	3550B



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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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**Batch: B1A0141 - 3050B**

Method Blank (B1A0141-BLK1)

Prepared: 01/08/2021 09:50

Analyzed: 01/08/2021 10:37

Antimony	ND	5.00	mg/kg							
Arsenic	ND	1.50	mg/kg							
Barium	ND	5.00	mg/kg							
Beryllium	ND	2.50	mg/kg							
Cadmium	ND	2.50	mg/kg							
Chromium	ND	5.00	mg/kg							
Cobalt	ND	5.00	mg/kg							
Copper	ND	5.00	mg/kg							
Lead	ND	5.00	mg/kg							
Molybdenum	ND	5.00	mg/kg							
Nickel	ND	5.00	mg/kg							
Selenium	ND	5.00	mg/kg							
Silver	ND	5.00	mg/kg							
Thallium	ND	5.00	mg/kg							
Vanadium	ND	5.00	mg/kg							
Zinc	ND	2.50	mg/kg							



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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### Batch: B1A0141 - 3050B (Continued)

LCS (B1A0141-BS1)

Prepared: 01/08/2021 09:50

Analyzed: 01/08/2021 10:39

Antimony	40.4	5.00	mg/kg	50.0		80.7	75-125			
Arsenic	44.0	1.50	mg/kg	50.0		87.9	75-125			
Barium	50.5	5.00	mg/kg	50.0		101	75-125			
Beryllium	52.2	2.50	mg/kg	50.0		104	75-125			
Cadmium	50.1	2.50	mg/kg	50.0		100	75-125			
Chromium	42.9	5.00	mg/kg	50.0		85.8	75-125			
Cobalt	48.9	5.00	mg/kg	50.0		97.9	75-125			
Copper	49.3	5.00	mg/kg	50.0		98.6	75-125			
Lead	46.7	5.00	mg/kg	50.0		93.5	75-125			
Molybdenum	39.7	5.00	mg/kg	50.0		79.4	75-125			
Nickel	49.5	5.00	mg/kg	50.0		98.9	75-125			
Selenium	44.0	5.00	mg/kg	50.0		87.9	75-125			
Silver	50.1	5.00	mg/kg	50.0		100	75-125			
Thallium	43.7	5.00	mg/kg	50.0		87.3	75-125			
Vanadium	48.8	5.00	mg/kg	50.0		97.6	75-125			
Zinc	45.2	2.50	mg/kg	50.0		90.5	75-125			

#### LCS (B1A0141-BSD1)

Analyzed: 01/08/2021 10:41

Antimony	41.7	5.00	mg/kg	50.0		83.5	75-125	3.40	15	
Arsenic	45.4	1.50	mg/kg	50.0		90.8	75-125	3.21	15	
Barium	49.8	5.00	mg/kg	50.0		99.5	75-125	1.54	15	
Beryllium	53.2	2.50	mg/kg	50.0		106	75-125	1.74	15	
Cadmium	49.4	2.50	mg/kg	50.0		98.9	75-125	1.40	15	
Chromium	43.3	5.00	mg/kg	50.0		86.6	75-125	<1.00	15	
Cobalt	48.3	5.00	mg/kg	50.0		96.6	75-125	1.35	15	
Copper	48.6	5.00	mg/kg	50.0		97.3	75-125	1.39	15	
Lead	46.5	5.00	mg/kg	50.0		92.9	75-125	<1.00	15	
Molybdenum	40.0	5.00	mg/kg	50.0		80.0	75-125	<1.00	15	
Nickel	48.8	5.00	mg/kg	50.0		97.6	75-125	1.36	15	
Selenium	45.7	5.00	mg/kg	50.0		91.3	75-125	3.83	15	
Silver	50.4	5.00	mg/kg	50.0		101	75-125	<1.00	15	
Thallium	44.0	5.00	mg/kg	50.0		88.0	75-125	<1.00	15	
Vanadium	48.1	5.00	mg/kg	50.0		96.1	75-125	1.57	15	
Zinc	44.7	2.50	mg/kg	50.0		89.5	75-125	1.09	15	



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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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#### Batch: B1A0141 - 3050B (Continued)

Duplicate (B1A0141-DUP1)

Source: BCA0026-06

Prepared: 01/08/2021 09:50

Analyzed: 01/08/2021 12:12

Antimony	ND	5.00	mg/kg		ND			<1.00	15	
Arsenic	35.0	1.50	mg/kg		40.2			13.8	15	
Barium	111	5.00	mg/kg		112			<1.00	15	
Beryllium	ND	2.50	mg/kg		ND			<1.00	15	
Cadmium	ND	2.50	mg/kg		ND			<1.00	15	
Chromium	16.1	5.00	mg/kg		16.0			<1.00	15	
Cobalt	9.45	5.00	mg/kg		9.35			1.08	15	
Copper	23.6	5.00	mg/kg		23.8			1.11	15	
Lead	11.8	5.00	mg/kg		12.5			6.10	15	
Molybdenum	ND	5.00	mg/kg		ND			<1.00	15	
Nickel	13.4	5.00	mg/kg		13.5			<1.00	15	
Selenium	ND	5.00	mg/kg		ND			<1.00	15	
Silver	ND	5.00	mg/kg		ND			<1.00	15	
Thallium	ND	5.00	mg/kg		ND			<1.00	15	
Vanadium	34.8	5.00	mg/kg		34.5			1.06	15	
Zinc	61.7	2.50	mg/kg		66.0			6.76	15	

#### Matrix Spike (B1A0141-MS1)

Source: BCA0026-06

Analyzed: 01/08/2021 12:15

Antimony	38.5	5.00	mg/kg	50.0	ND	77.0	75-125			
Arsenic	84.0	1.50	mg/kg	50.0	40.2	87.5	75-125			
Barium	163	5.00	mg/kg	50.0	112	102	75-125			
Beryllium	53.1	2.50	mg/kg	50.0	ND	106	75-125			
Cadmium	45.6	2.50	mg/kg	50.0	ND	91.2	75-125			
Chromium	56.6	5.00	mg/kg	50.0	16.0	81.2	75-125			
Cobalt	54.3	5.00	mg/kg	50.0	9.35	90.0	75-125			
Copper	77.1	5.00	mg/kg	50.0	23.8	107	75-125			
Lead	51.0	5.00	mg/kg	50.0	12.5	77.0	75-125			
Molybdenum	38.4	5.00	mg/kg	50.0	ND	76.7	75-125			
Nickel	57.7	5.00	mg/kg	50.0	13.5	88.4	75-125			
Selenium	34.6	5.00	mg/kg	50.0	ND	69.2	75-125			MSNR
Silver	47.2	5.00	mg/kg	50.0	ND	94.4	75-125			
Thallium	25.6	5.00	mg/kg	50.0	ND	51.2	75-125			MSNR
Vanadium	82.5	5.00	mg/kg	50.0	34.5	96.0	75-125			
Zinc	102	2.50	mg/kg	50.0	66.0	71.9	75-125			MSNR



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
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## Quality Control Results

### Metals Total (EPA 6010B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0141 - 3050B (Continued)</b>				<b>Prepared: 01/08/2021 09:50</b>						
Matrix Spike Dup (B1A0141-MSD1)				<b>Source: BCA0026-06</b>						
				<b>Analyzed: 01/08/2021 12:17</b>						
Antimony	38.9	5.00	mg/kg	50.0	ND	77.7	75-125	<1.00	15	
Arsenic	80.5	1.50	mg/kg	50.0	40.2	80.6	75-125	4.20	15	
Barium	163	5.00	mg/kg	50.0	112	103	75-125	<1.00	15	
Beryllium	53.0	2.50	mg/kg	50.0	ND	106	75-125	<1.00	15	
Cadmium	45.7	2.50	mg/kg	50.0	ND	91.4	75-125	<1.00	15	
Chromium	56.9	5.00	mg/kg	50.0	16.0	81.9	75-125	<1.00	15	
Cobalt	54.6	5.00	mg/kg	50.0	9.35	90.5	75-125	<1.00	15	
Copper	77.0	5.00	mg/kg	50.0	23.8	106	75-125	<1.00	15	
Lead	51.2	5.00	mg/kg	50.0	12.5	77.3	75-125	<1.00	15	
Molybdenum	38.4	5.00	mg/kg	50.0	ND	76.8	75-125	<1.00	15	
Nickel	58.0	5.00	mg/kg	50.0	13.5	89.0	75-125	<1.00	15	
Selenium	35.8	5.00	mg/kg	50.0	ND	71.6	75-125	3.31	15	MSNR
Silver	47.2	5.00	mg/kg	50.0	ND	94.5	75-125	<1.00	15	
Thallium	27.0	5.00	mg/kg	50.0	ND	54.0	75-125	5.25	15	MSNR
Vanadium	82.6	5.00	mg/kg	50.0	34.5	96.2	75-125	<1.00	15	
Zinc	102	2.50	mg/kg	50.0	66.0	72.3	75-125	<1.00	15	MSNR

### Batch: B1A0150 - 7471A

Method Blank (B1A0150-BLK1)

Mercury	ND	0.200	mg/kg							
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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/11/2021 13:01
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## Quality Control Results

### Metals Total (EPA 7471A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0150 - 7471A (Continued)</b>				<b>Prepared: 01/08/2021 08:37</b>						
LCS (B1A0150-BS1)				<b>Analyzed: 01/08/2021 10:29</b>						
Mercury	0.508	0.200	mg/kg	0.500		102	75-125			
LCSD (B1A0150-BSD1)				<b>Analyzed: 01/08/2021 10:32</b>						
Mercury	0.512	0.200	mg/kg	0.500		102	75-125	<1.00	15	
Matrix Spike (B1A0150-MS1)				<b>Source: BCA0026-06</b>						
Mercury	0.685	0.200	mg/kg	0.500	0.120	113	75-125			
Matrix Spike Dup (B1A0150-MSD1)				<b>Source: BCA0026-06</b>						
Mercury	0.512	0.200	mg/kg	0.500	0.120	78.3	75-125	28.9	15	R



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## Quality Control Results

### TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0124 - 5030</b>				<b>Prepared: 01/07/2021 13:54</b>						
Method Blank (B1A0124-BLK1)				<b>Analyzed: 01/07/2021 17:23</b>						
TPH as Gasoline and Light HC. (C4-C12)	ND	10.0	mg/kg							
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0568</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>114</i>	<i>75-120</i>			



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## Quality Control Results

### TPH Gasoline Range (EPA 8015B TPH GRO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0124 - 5030 (Continued)</b>				<b>Prepared: 01/07/2021 13:54</b>						
<b>LCS (B1A0124-BS1)</b>				<b>Analyzed: 01/07/2021 16:04</b>						
TPH as Gasoline and Light HC. (C4-C12)	0.980	10.0	mg/kg	1.00		98.0	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0556</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>111</i>	<i>75-120</i>			
<b>LCSD (B1A0124-BSD1)</b>				<b>Analyzed: 01/07/2021 16:43</b>						
TPH as Gasoline and Light HC. (C4-C12)	0.970	10.0	mg/kg	1.00		97.0	75-125	1.01	15	
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0562</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>112</i>	<i>75-120</i>			
<b>Matrix Spike (B1A0124-MS1)</b>				<b>Source: BCA0019-07</b>			<b>Analyzed: 01/08/2021 02:31</b>			
TPH as Gasoline and Light HC. (C4-C12)	1.68	10.0	mg/kg	1.00	0.877	80.2	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0598</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>120</i>	<i>75-120</i>			
<b>Matrix Spike Dup (B1A0124-MSD1)</b>				<b>Source: BCA0019-07</b>			<b>Analyzed: 01/08/2021 03:10</b>			
TPH as Gasoline and Light HC. (C4-C12)	1.68	10.0	mg/kg	1.00	0.877	80.3	75-125	<1.00	15	
<i>Surrogate: Bromofluorobenzene</i>	<i>0.0600</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>120</i>	<i>75-120</i>			



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## Quality Control Results

### TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0110 - 3550B</b>				<b>Prepared: 01/07/2021 08:15</b>						
Method Blank (B1A0110-BLK1)				<b>Analyzed: 01/07/2021 13:33</b>						
TPH as Diesel (C13-C22)	ND	10.0	mg/kg							
TPH as Heavy Hydrocarbons (C23-40)	ND	100	mg/kg							
TPH Total as Diesel and Heavy HC (C13-C40)	ND	100	mg/kg							
<i>Surrogate: Chlorobenzene</i>	<i>89.2</i>		<i>mg/kg</i>	<i>100</i>		<i>89.2</i>	<i>75-125</i>			



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## Quality Control Results

### TPH Diesel Range (EPA 8015B TPH DRO/ORO)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0110 - 3550B (Continued)</b>				<b>Prepared: 01/07/2021 08:15</b>						
<b>LCS (B1A0110-BS1)</b>				<b>Analyzed: 01/07/2021 10:18</b>						
TPH as Diesel (C13-C22)	468	10.0	mg/kg	500		93.7	75-125			
<i>Surrogate: Chlorobenzene</i>	<i>85.2</i>		<i>mg/kg</i>	<i>100</i>		<i>85.2</i>	<i>75-125</i>			
<b>LCSD (B1A0110-BSD1)</b>				<b>Analyzed: 01/07/2021 10:53</b>						
TPH as Diesel (C13-C22)	468	10.0	mg/kg	500		93.6	75-125	<1.00	20	
<i>Surrogate: Chlorobenzene</i>	<i>83.9</i>		<i>mg/kg</i>	<i>100</i>		<i>83.9</i>	<i>75-125</i>			
<b>Matrix Spike (B1A0110-MS1)</b>				<b>Source: BCA0026-06</b>			<b>Analyzed: 01/07/2021 12:23</b>			
TPH as Diesel (C13-C22)	472	10.0	mg/kg	500	ND	94.3	75-125			
<i>Surrogate: Chlorobenzene</i>	<i>81.7</i>		<i>mg/kg</i>	<i>100</i>		<i>81.7</i>	<i>75-125</i>			
<b>Matrix Spike Dup (B1A0110-MSD1)</b>				<b>Source: BCA0026-06</b>			<b>Analyzed: 01/07/2021 12:58</b>			
TPH as Diesel (C13-C22)	466	10.0	mg/kg	500	ND	93.2	75-125	1.22	20	
<i>Surrogate: Chlorobenzene</i>	<i>81.3</i>		<i>mg/kg</i>	<i>100</i>		<i>81.3</i>	<i>75-125</i>			



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## Quality Control Results

### PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0129 - 3550B</b>										
<b>Method Blank (B1A0129-BLK1)</b>										
<b>Prepared: 01/07/2021 15:47</b>										
<b>Analyzed: 01/07/2021 18:09</b>										
Aroclor-1016 (PCB-1016)	ND	0.0500	mg/kg wet							
Aroclor-1221 (PCB-1221)	ND	0.0500	mg/kg wet							
Aroclor-1232 (PCB-1232)	ND	0.0500	mg/kg wet							
Aroclor-1242 (PCB-1242)	ND	0.0500	mg/kg wet							
Aroclor-1248 (PCB-1248)	ND	0.0500	mg/kg wet							
Aroclor-1254 (PCB-1254)	ND	0.0500	mg/kg wet							
Aroclor-1260 (PCB-1260)	ND	0.0500	mg/kg wet							
Aroclor-1262 (PCB-1262)	ND	0.0500	mg/kg wet							
Aroclor-1268 (PCB-1268)	ND	0.0500	mg/kg wet							
<i>Surrogate: Decachlorobiphenyl</i>	0.0215		mg/kg wet	0.0250		86.2	30-150			
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0215		mg/kg wet	0.0250		86.1	30-150			



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## Quality Control Results

### PCBs (EPA 8082)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0129 - 3550B (Continued)</b>				<b>Prepared: 01/07/2021 15:47</b>						
LCS (B1A0129-BS1)				<b>Analyzed: 01/07/2021 16:51</b>						
Aroclor-1016 (PCB-1016)	0.511	0.0500	mg/kg wet	0.500		102	50-150			
Aroclor-1260 (PCB-1260)	0.549	0.0500	mg/kg wet	0.500		110	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0204</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>81.7</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0228</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>91.1</i>	<i>30-150</i>			
<b>LCSD (B1A0129-BSD1)</b>				<b>Analyzed: 01/07/2021 17:11</b>						
Aroclor-1016 (PCB-1016)	0.551	0.0500	mg/kg wet	0.500		110	50-150	7.44	40	
Aroclor-1260 (PCB-1260)	0.516	0.0500	mg/kg wet	0.500		103	50-150	6.25	40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0243</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>97.2</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0253</i>		<i>mg/kg wet</i>	<i>0.0250</i>		<i>101</i>	<i>30-150</i>			
<b>Matrix Spike (B1A0129-MS1)</b>				<b>Source: BCA0026-01</b>			<b>Analyzed: 01/07/2021 17:30</b>			
Aroclor-1016 (PCB-1016)	0.674	0.0500	mg/kg dry	0.575	ND	117	50-150			
Aroclor-1260 (PCB-1260)	0.782	0.0500	mg/kg dry	0.575	ND	136	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0290</i>		<i>mg/kg dry</i>	<i>0.0287</i>		<i>101</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0282</i>		<i>mg/kg dry</i>	<i>0.0287</i>		<i>98.2</i>	<i>30-150</i>			
<b>Matrix Spike Dup (B1A0129-MSD1)</b>				<b>Source: BCA0026-01</b>			<b>Analyzed: 01/07/2021 17:49</b>			
Aroclor-1016 (PCB-1016)	0.634	0.0500	mg/kg dry	0.575	ND	110	50-150	6.04	40	
Aroclor-1260 (PCB-1260)	0.696	0.0500	mg/kg dry	0.575	ND	121	50-150	11.7	40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0280</i>		<i>mg/kg dry</i>	<i>0.0287</i>		<i>97.5</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0274</i>		<i>mg/kg dry</i>	<i>0.0287</i>		<i>95.2</i>	<i>30-150</i>			



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## Quality Control Results

### Wet Chemistry Analysis (ASTM D2216)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0132 - ASTM-D2216</b>				<b>Prepared: 01/07/2021 16:16</b>						
Duplicate (B1A0132-DUP1)				<b>Source: BCA0026-01</b>						
				<b>Analyzed: 01/08/2021 09:25</b>						
Moisture Content	12.8	0.100	% wt		13.0			1.55	15	





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## Qualifiers and Definitions

ITEM	Qualifiers
MSNR	MS/MSD could not be quantitated due to matrix interferences. Sample results were accepted based on LCS/LCSD percent recoveries and RPD values.
R	The RPD was outside of QC acceptance limits due to possible matrix interference.

ITEM	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter



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OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction



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January 13, 2021

AETL Job No: BCA0026  
Received Date: 01/07/2021  
Project Number: IO# 347354

Southern California Edison Company  
1 Innovation Way  
Pomona, CA 91768  
Telephone: (909) 274-1646

Attention: Ryan Castillo

Project Name: Downey Sub Regulator Replacments  
Site: Downey Substation  
11228 Brookshire Ave.  
Downey, CA 90241

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan  
Project Manager

Approved By:

Jim Lin  
Project Manager

# Table of Contents

Client Project Name: WCI- Rubicon (IO# 347354)  
Work Order Number: BCA0026

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
--	--	--

## Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 3.2 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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# CHAIN OF CUSTODY RECORD

## 121329

AETL JOB No. **BCA0026**

Page 1 of 1

**COMPANY** Rubicon Engineering Corporation  
**PROJECT MANAGER** Ryan Castillo  
**PHONE** (310) 575-0081  
**COMPANY ADDRESS** 12951 Newport Ave. Ste 200, Tustin, CA  
**EMAIL** (714) 575-0082  
**PROJECT #** Downey Sub Regulator Replacements  
**PO #** Downey Substation  
**SITE NAME AND ADDRESS** 1128 Brookshire Ave., Downey, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
HAI-0.5	BCA0026.01	11/7/2021	8:15	Soil	1 Jar	
HAI-2.0	BCA0026.02		8:20			
HAI-3.5	BCA0026.03		8:25			
HAI-5.0	BCA0026.04		8:50			
CI	BCA0026.05		8:40	Concrete	1 Jar	
HAI-Camp	BCA0026.06			Soil		

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
PCBs 8082	WCI ID# 317354
TPH 805B	Soil Plat: 1.0 mg/kg
THE 22 Metals	Concrete Plat: 1.0 mg/kg
Moisture	Soil composite depths: 0.5, 2.0, 3.5, 5.0
	Hold for PCBs
	Can out of 4oz Jar

**TOTAL NUMBER OF CONTAINERS:** 6

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

**TURN AROUND TIME**  
 NORMAL  SAME DAY RUSH  NEXT DAY RUSH   
 2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH

**DATA DELIVERABLE REQUIRED**  
 HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

**RELINQUISHED BY:** 1. Signature: [Signature] Printed Name: [Name] Date: 1/7/2021 Time: 10:45  
 2. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]  
 3. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**RECEIVED BY:** 1. Signature: [Signature] Printed Name: [Name] Date: 1/7/2021 Time: 10:45  
 2. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]  
 3. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**TRIBUTION:** WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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**CHAIN OF CUSTODY RECORD**  
**121329**

AETL JOB No. **BCA0026**

Page **1** of **1**

**COMPANY** Rubicon Engineering Corporation  
**PROJECT MANAGER** Ryan Cash 110  
**PHONE** (714) 573-0081  
**COMPANY ADDRESS** 1285 Newport Ave. Ste 200, Justin, CA  
**EMAIL** (714) 573-0082  
**PROJECT NAME** Downey Sub Regulator Replacements  
**PROJECT #**  
**SITE NAME AND ADDRESS** Downey Substation  
 1128 Brookside Ave., Downey, CA

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
HAI-0.5	BCA0026.01	11/7/2021	8:15	Soil	1 Jar	
HAI-2.0	BCA0026.02		8:20			
HAI-3.5	BCA0026.03		8:25			
HAI-5.0	BCA0026.04		8:50			
CI	BCA0026.05		8:40	Concrete Jar	1 Jar	
HAI-Camp	BCA0026.06			Soil		

**TOTAL NUMBER OF CONTAINERS:** 6

**BILLING INFORMATION / SPECIAL INSTRUCTIONS**

**TURN AROUND TIME**  
 NORMAL  SAME DAY RUSH  NEXT DAY RUSH   
 2 DAYS RUSH  3 DAYS RUSH  4 DAYS RUSH

**DATA DELIVERABLE REQUIRED**  
 HARD COPY  
 E-COPY  
 GEOTRACKER (GLOBAL ID)  
 OTHER (PLEASE SPECIFY)

ANALYSIS REQUESTED	TEST INSTRUCTIONS & COMMENTS
PCBs 8082	WCI Do# 317354
TPH 8015	Soil PAL: 1.0 mg/kg
TH Metals	Concrete PAL: 1.0 mg/kg
Moisture	Soil composite depths: 0.5, 2.0, 3.5, 5.0
VOCs 826B	Hold for PCBs
	Can out of Hot Jar
	* 1/2 Due 1/13

**RELINQUISHED BY:** 1. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**RECEIVED BY:** 1. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**RELINQUISHED BY:** 2. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**RECEIVED BY:** 2. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**RELINQUISHED BY:** 3. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

**RECEIVED BY:** 3. Signature: [Signature] Printed Name: [Name] Date: [Date] Time: [Time]

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, Account Manager, PINK - Project/Account Manager, YELLOW - Sampler/Originator

## Jim Lin

---

**From:** Josh Sandige <jsandige@rubiconeng.com>  
**Sent:** Tuesday, January 12, 2021 10:47 AM  
**To:** Jim Lin; Ryan Castillo (SCE)  
**Cc:** Michael Weinberger ; Mohsen Mehran; Roohi Toosi; Peter Lee; Joe Sevrean; Christine Brendle (SCE); Hector Martinez  
**Subject:** Re: (Rubicon WCI) Results of analyses, AETL Job No.: BCA0026 (In Summary Table and PDF formats) of 2 discrete soil, 1 composite soil, & 1 concrete samples from "Downey Substation Regulator Replacements, IO# 347354"

Good Morning Jim,

Please run VOC analysis on project number BCA0026, sample ID C1 (BCA0026-05), 24 hour TAT.

Thanks,

Josh

---

**From:** Jim Lin <jiml@aetlab.com>  
**Sent:** Monday, January 11, 2021 1:20:40 PM  
**To:** Ryan Castillo (SCE) <ryan.castillo@sce.com>  
**Cc:** Michael Weinberger <michael.b.weinberger@sce.com>; Mohsen Mehran <mmehran@rubiconeng.com>; Roohi Toosi <rtoosi@rubiconeng.com>; Peter Lee <plee@rubiconeng.com>; Joe Sevrean <jsevrean@aetlab.com>; Josh Sandige <jsandige@rubiconeng.com>; Christine Brendle (SCE) <Christine.Brendle@sce.com>  
**Subject:** (Rubicon WCI) Results of analyses, AETL Job No.: BCA0026 (In Summary Table and PDF formats) of 2 discrete soil, 1 composite soil, & 1 concrete samples from "Downey Substation Regulator Replacements, IO# 347354"

Dear Ryan, Christine, Michael, Mohsen, Roohi, Josh and Peter ,

Herewith please find results of analyses (In Summary Table and PDF formats) of 2 discrete soil, 1 composite soil, & 1 concrete samples from "Downey Substation Regulator Replacements, IO# 347354" which were received by AETL on 01/07/2020 at 1045.

**AETL Job No: BCA0026**

**\*\*\*\*\*Note: Elevated TPH results.\*\*\*\*\***

Should you have any question, please feel free to contact us.

Thank you,

**Jim Lin**

Project Manager

**AETL, LLC.**

2834 N. Naomi St., Burbank, CA 91504

3329 Vincent Rd. Pleasant Hill, CA 94523

T 818.845.8200 C 818.399.7095





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## COOLER RECEIPT FORM

Client Name: <u>EDISON</u>				
Project Name:				
AETL Job Number: <u>BCA0026</u>				
Date Received: <u>1/7/21</u>		Received by: <u>Savrs Pireh</u>		
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GSL <input type="checkbox"/> FedEx <input type="checkbox"/> UPS				
<input type="checkbox"/> Others:				
Samples were received in: <input checked="" type="checkbox"/> Cooler ( <u>1</u> ) <input type="checkbox"/> Other (Specify):				
Inside temperature of shipping container No 1: <u>3.2°</u> , No 2: _____, No 3: _____				
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):				
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice				
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO <sub>3</sub> , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , <input type="checkbox"/> MeOH, <input type="checkbox"/> NaHSO <sub>4</sub>				
<input type="checkbox"/> Other (Specify):				
	Yes	No*	N/A	Name, if client was notified.
1. Are the COCs Correct?	<input checked="" type="checkbox"/>			
2. Are Sample labels legible & indelible ink?	<input checked="" type="checkbox"/>			
3. Do samples match the COC?	<input checked="" type="checkbox"/>			
4. Are the required analyses clear?	<input checked="" type="checkbox"/>			
5. Is there enough samples for required analysis?	<input checked="" type="checkbox"/>			
6. Does cooler or samples have custody seal(s)?			N/A	
7. Are sample containers in good condition?	<input checked="" type="checkbox"/>			
8. Are samples preserved?	<input checked="" type="checkbox"/>			
9. Are samples preserved properly for the intended analysis?	<input checked="" type="checkbox"/>			
10. Are the VOAs free of headspace?			N/A	
11. Are the jars free of headspace?	<input checked="" type="checkbox"/>			
* = see note below. N/A = Not Applicable				

**PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.**

\*Explain all "No" answers for above questions:

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
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## Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.  
Results for EPA Method 8082 has been reported based on dry weight.

No analytical non-conformances were encountered.  
Qualifiers are noted in the report.



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## Samples Received

**AETL received the following samples on 01/07/2021 with the following specifications**

Project Name: Downey Substation Site: 11228 Brookshire Ave. Downey, CA 90241		
<b>Client ID</b> C1		<b>Sample Date</b> 01/6/2021 8:40
<b>Lab ID</b> BCA0026-05	<b>Matrix</b> Concrete	<b>Quantity of Containers</b> 3
<b>Analysis</b> EPA 8260B	<b>Units</b> mg/kg	<b>TAT</b> 4
<b>Total Number of Samples received:</b>		<b>1</b>



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## Positive Hits Summary

Lab ID	Client ID					Received
BCA0026-05	C1					01/07/2021 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed	
EPA 8260B	Acetone	0.366		mg/kg	01/12/2021 12:00	
EPA 8260B	2-Butanone (MEK)	0.104		mg/kg	01/12/2021 12:00	
EPA 8260B	2-Hexanone	0.146		mg/kg	01/12/2021 12:00	
EPA 8260B	4-Methyl-2-pentanone (MIBK)	0.0386		mg/kg	01/12/2021 12:00	
EPA 8260B	Toluene (Methyl benzene)	0.00224		mg/kg	01/12/2021 12:00	
EPA 8260B	m,p-Xylenes	0.00150		mg/kg	01/12/2021 12:00	



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--	--	--

## Analytical Results

Client ID: C1

Lab ID: BCA0026-05 (Concrete)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Volatile Organic Compounds

Method: EPA 8260B

<b>Acetone</b>	<b>0.366</b>		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Benzene	ND		1	0.00100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Bromobenzene (Phenyl bromide)	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Bromochloromethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Bromodichloromethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Bromoform (Tribromomethane)	ND		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Bromomethane (Methyl bromide)	ND		1	0.0150	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
<b>2-Butanone (MEK)</b>	<b>0.104</b>		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
n-Butylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
sec-Butylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
tert-Butylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Carbon Disulfide	ND		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Carbon tetrachloride	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Chlorobenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Chloroethane	ND		1	0.0150	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
2-Chloroethyl vinyl ether	ND		1	0.0500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Chloroform (Trichloromethane)	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Chloromethane (Methyl chloride)	ND		1	0.0150	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
2-Chlorotoluene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
4-Chlorotoluene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Dibromochloromethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2-Dibromoethane (EDB)	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Dibromomethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2-Dichlorobenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,3-Dichlorobenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,4-Dichlorobenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Dichlorodifluoromethane	ND		1	0.0150	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1-Dichloroethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2-Dichloroethane (EDC)	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1-Dichloroethene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
cis-1,2-Dichloroethene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
trans-1,2-Dichloroethene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2-Dichloropropane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
--	--	--

## Analytical Results

**Client ID: C1**

**Lab ID: BCA0026-05 (Concrete)**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
<b>Volatile Organic Compounds (Continued)</b>										
1,3-Dichloropropane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
2,2-Dichloropropane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1-Dichloropropene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
cis-1,3-Dichloropropene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
trans-1,3-Dichloropropene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Ethylbenzene	ND		1	0.00100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Hexachlorobutadiene	ND		1	0.0150	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
<b>2-Hexanone</b>	<b>0.146</b>		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Iodomethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Isopropylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
p-Isopropyltoluene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
<b>4-Methyl-2-pentanone (MIBK)</b>	<b>0.0386</b>		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Methyl-tert-butyl ether (MTBE)	ND		1	0.00200	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Methylene chloride (DCM)	ND		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Naphthalene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
n-Propylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Styrene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1,1,2-Tetrachloroethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1,2,2-Tetrachloroethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Tetrachloroethene	ND		1	0.00200	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
<b>Toluene (Methyl benzene)</b>	<b>0.00224</b>		1	0.00100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2,3-Trichlorobenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2,4-Trichlorobenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1,1-Trichloroethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,1,2-Trichloroethane	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Trichloroethene	ND		1	0.00150	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Trichlorofluoromethane	ND		1	0.0100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2,3-Trichloropropane	ND		1	0.00100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,2,4-Trimethylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
1,3,5-Trimethylbenzene	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Vinyl Acetate	ND		1	0.0250	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Vinyl chloride (Chloroethene)	ND		1	0.00500	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
o-Xylene	ND		1	0.00100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
<b>m,p-Xylenes</b>	<b>0.00150</b>		1	0.00100	mg/kg	01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
	Recovery			Acceptance Criteria						
<i>Surrogate: Bromofluorobenzene</i>	<i>112%</i>			<i>75-125</i>		01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
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## Analytical Results

Client ID: C1

Lab ID: BCA0026-05 (Concrete)

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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### Volatile Organic Compounds (Continued)

Surrogate: Dibromofluoromethane	42.5% M, S6			75-125		01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030
Surrogate: Toluene-d8	103%			75-125		01/12/21 11:03	01/12/21 12:00	B1A0161	IN	5030



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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Batch: B1A0161 - 5030

Method Blank (B1A0161-BLK1)

Prepared: 01/11/2021 16:03

Analyzed: 01/12/2021 07:28

Acetone	ND	0.0250	mg/kg							
Benzene	ND	0.00100	mg/kg							
Bromobenzene (Phenyl bromide)	ND	0.00500	mg/kg							
Bromochloromethane	ND	0.00500	mg/kg							
Bromodichloromethane	ND	0.00500	mg/kg							
Bromoform (Tribromomethane)	ND	0.0250	mg/kg							
Bromomethane (Methyl bromide)	ND	0.0150	mg/kg							
2-Butanone (MEK)	ND	0.0250	mg/kg							
n-Butylbenzene	ND	0.00500	mg/kg							
sec-Butylbenzene	ND	0.00500	mg/kg							
tert-Butylbenzene	ND	0.00500	mg/kg							
Carbon Disulfide	ND	0.0250	mg/kg							
Carbon tetrachloride	ND	0.00500	mg/kg							
Chlorobenzene	ND	0.00500	mg/kg							
Chloroethane	ND	0.0150	mg/kg							
2-Chloroethyl vinyl ether	ND	0.0500	mg/kg							
Chloroform (Trichloromethane)	ND	0.00500	mg/kg							
Chloromethane (Methyl chloride)	ND	0.0150	mg/kg							
2-Chlorotoluene	ND	0.00500	mg/kg							
4-Chlorotoluene	ND	0.00500	mg/kg							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.00500	mg/kg							
Dibromochloromethane	ND	0.00500	mg/kg							
1,2-Dibromoethane (EDB)	ND	0.00500	mg/kg							
Dibromomethane	ND	0.00500	mg/kg							
1,2-Dichlorobenzene	ND	0.00500	mg/kg							
1,3-Dichlorobenzene	ND	0.00500	mg/kg							
1,4-Dichlorobenzene	ND	0.00500	mg/kg							
Dichlorodifluoromethane	ND	0.0150	mg/kg							
1,1-Dichloroethane	ND	0.00500	mg/kg							
1,2-Dichloroethane (EDC)	ND	0.00500	mg/kg							
1,1-Dichloroethene	ND	0.00500	mg/kg							
cis-1,2-Dichloroethene	ND	0.00500	mg/kg							
trans-1,2-Dichloroethene	ND	0.00500	mg/kg							
1,2-Dichloropropane	ND	0.00500	mg/kg							
1,3-Dichloropropane	ND	0.00500	mg/kg							
2,2-Dichloropropane	ND	0.00500	mg/kg							
1,1-Dichloropropene	ND	0.00500	mg/kg							
cis-1,3-Dichloropropene	ND	0.00500	mg/kg							
trans-1,3-Dichloropropene	ND	0.00500	mg/kg							
Ethylbenzene	ND	0.00100	mg/kg							
Hexachlorobutadiene	ND	0.0150	mg/kg							
2-Hexanone	ND	0.0250	mg/kg							





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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0161 - 5030 (Continued)</b>										
Method Blank (B1A0161-BLK1)										
Prepared: 01/11/2021 16:03										
Analyzed: 01/12/2021 07:28										
Iodomethane	ND	0.00500	mg/kg							
Isopropylbenzene	ND	0.00500	mg/kg							
p-Isopropyltoluene	ND	0.00500	mg/kg							
4-Methyl-2-pentanone (MIBK)	ND	0.0250	mg/kg							
Methyl-tert-butyl ether (MTBE)	ND	0.00200	mg/kg							
Methylene chloride (DCM)	ND	0.0250	mg/kg							
Naphthalene	ND	0.00500	mg/kg							
n-Propylbenzene	ND	0.00500	mg/kg							
Styrene	ND	0.00500	mg/kg							
1,1,1,2-Tetrachloroethane	ND	0.00500	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.00500	mg/kg							
Tetrachloroethene	ND	0.00200	mg/kg							
Toluene (Methyl benzene)	ND	0.00100	mg/kg							
1,2,3-Trichlorobenzene	ND	0.00500	mg/kg							
1,2,4-Trichlorobenzene	ND	0.00500	mg/kg							
1,1,1-Trichloroethane	ND	0.00500	mg/kg							
1,1,2-Trichloroethane	ND	0.00500	mg/kg							
Trichloroethene	ND	0.00150	mg/kg							
Trichlorofluoromethane	ND	0.0100	mg/kg							
1,2,3-Trichloropropane	ND	0.00100	mg/kg							
1,2,4-Trimethylbenzene	ND	0.00500	mg/kg							
1,3,5-Trimethylbenzene	ND	0.00500	mg/kg							
Vinyl Acetate	ND	0.0250	mg/kg							
Vinyl chloride (Chloroethene)	ND	0.00500	mg/kg							
o-Xylene	ND	0.00100	mg/kg							
m,p-Xylenes	ND	0.00100	mg/kg							
<hr/>										
Surrogate: Bromofluorobenzene	50.3		ug/kg	50.0		101	75-125			
Surrogate: Dibromofluoromethane	53.7		ug/kg	50.0		107	75-125			
Surrogate: Toluene-d8	49.0		ug/kg	50.0		98.0	75-125			



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0161 - 5030 (Continued)</b>				<b>Prepared: 01/11/2021 16:03</b>						
LCS (B1A0161-BS1)				<b>Analyzed: 01/12/2021 05:24</b>						
Benzene	50.1		ug/kg	50.0		100	75-125			
Carbon tetrachloride	47.1		ug/kg	50.0		94.2	75-125			
Chlorobenzene	54.8		ug/kg	50.0		110	75-125			
Chloroform (Trichloromethane)	52.9		ug/kg	50.0		106	75-125			
1,2-Dichlorobenzene	51.0		ug/kg	50.0		102	75-125			
1,1-Dichloroethane	50.7		ug/kg	50.0		101	75-125			
1,1-Dichloroethene	48.1		ug/kg	50.0		96.3	75-125			
cis-1,2-Dichloroethene	55.0		ug/kg	50.0		110	75-125			
Ethylbenzene	55.6		ug/kg	50.0		111	75-125			
Isopropylbenzene	50.4		ug/kg	50.0		101	75-125			
Methyl-tert-butyl ether (MTBE)	49.5		ug/kg	50.0		99.0	75-125			
n-Propylbenzene	50.0		ug/kg	50.0		100	75-125			
Toluene (Methyl benzene)	52.2		ug/kg	50.0		104	75-125			
1,1,1-Trichloroethane	46.3		ug/kg	50.0		92.6	75-125			
1,1,2-Trichloroethane	59.0		ug/kg	50.0		118	75-125			
Trichloroethene	53.5		ug/kg	50.0		107	75-125			
1,2,4-Trimethylbenzene	51.5		ug/kg	50.0		103	75-125			
1,3,5-Trimethylbenzene	50.3		ug/kg	50.0		101	75-125			
o-Xylene	54.6		ug/kg	50.0		109	75-125			
m,p-Xylenes	109		ug/kg	100		109	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>48.0</i>		<i>ug/kg</i>	<i>50.0</i>		<i>96.0</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>51.8</i>		<i>ug/kg</i>	<i>50.0</i>		<i>104</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.5</i>		<i>ug/kg</i>	<i>50.0</i>		<i>96.9</i>	<i>75-125</i>			

### LCSD (B1A0161-BSD1)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
				<b>Analyzed: 01/12/2021 06:06</b>						
Benzene	51.7		ug/kg	50.0		103	75-125	3.16	20	
Carbon tetrachloride	48.3		ug/kg	50.0		96.6	75-125	2.52	20	
Chlorobenzene	56.7		ug/kg	50.0		113	75-125	3.45	20	
Chloroform (Trichloromethane)	55.0		ug/kg	50.0		110	75-125	3.97	20	
1,2-Dichlorobenzene	53.4		ug/kg	50.0		107	75-125	4.61	20	
1,1-Dichloroethane	52.9		ug/kg	50.0		106	75-125	4.30	20	
1,1-Dichloroethene	50.1		ug/kg	50.0		100	75-125	3.95	20	
cis-1,2-Dichloroethene	56.5		ug/kg	50.0		113	75-125	2.66	20	
Ethylbenzene	57.7		ug/kg	50.0		115	75-125	3.62	20	
Isopropylbenzene	52.7		ug/kg	50.0		105	75-125	4.46	20	
Methyl-tert-butyl ether (MTBE)	50.6		ug/kg	50.0		101	75-125	2.08	20	
n-Propylbenzene	53.0		ug/kg	50.0		106	75-125	5.81	20	
Toluene (Methyl benzene)	53.5		ug/kg	50.0		107	75-125	2.36	20	
1,1,1-Trichloroethane	47.8		ug/kg	50.0		95.7	75-125	3.25	20	
1,1,2-Trichloroethane	60.3		ug/kg	50.0		121	75-125	2.18	20	
Trichloroethene	55.3		ug/kg	50.0		111	75-125	3.27	20	
1,2,4-Trimethylbenzene	53.7		ug/kg	50.0		107	75-125	4.16	20	

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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0161 - 5030 (Continued)</b>				<b>Prepared: 01/11/2021 16:03</b>						
LCSD (B1A0161-BSD1)				<b>Analyzed: 01/12/2021 06:06</b>						
1,3,5-Trimethylbenzene	53.0		ug/kg	50.0		106	75-125	5.19	20	
o-Xylene	56.2		ug/kg	50.0		112	75-125	2.96	20	
m,p-Xylenes	112		ug/kg	100		112	75-125	3.03	20	
<i>Surrogate: Bromofluorobenzene</i>	<i>48.2</i>		<i>ug/kg</i>	<i>50.0</i>		<i>96.5</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>52.1</i>		<i>ug/kg</i>	<i>50.0</i>		<i>104</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.2</i>		<i>ug/kg</i>	<i>50.0</i>		<i>96.3</i>	<i>75-125</i>			

Matrix Spike (B1A0161-MS1)	Source: BCA0058-01	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Benzene	56.2	ug/kg	50.0	0.00	112	75-125			
Carbon tetrachloride	56.6	ug/kg	50.0	0.00	113	75-125			
Chlorobenzene	59.3	ug/kg	50.0	0.00	119	75-125			
Chloroform (Trichloromethane)	61.7	ug/kg	50.0	0.00	123	75-125			
1,2-Dichlorobenzene	54.8	ug/kg	50.0	0.00	110	75-125			
1,1-Dichloroethane	61.1	ug/kg	50.0	0.00	122	75-125			
1,1-Dichloroethene	62.3	ug/kg	50.0	0.00	125	75-125			
cis-1,2-Dichloroethene	64.4	ug/kg	50.0	0.00	129	75-125			M
Ethylbenzene	64.0	ug/kg	50.0	0.00	128	75-125			M
Isopropylbenzene	61.2	ug/kg	50.0	0.00	122	75-125			
Methyl-tert-butyl ether (MTBE)	47.3	ug/kg	50.0	0.00	94.6	75-125			
n-Propylbenzene	62.4	ug/kg	50.0	0.00	125	75-125			
Toluene (Methyl benzene)	58.0	ug/kg	50.0	0.00	116	75-125			
1,1,1-Trichloroethane	55.3	ug/kg	50.0	0.00	111	75-125			
1,1,2-Trichloroethane	52.4	ug/kg	50.0	0.00	105	75-125			
Trichloroethene	64.3	ug/kg	50.0	0.00	129	75-125			M
1,2,4-Trimethylbenzene	62.4	ug/kg	50.0	0.00	125	75-125			
1,3,5-Trimethylbenzene	61.1	ug/kg	50.0	0.00	122	75-125			
o-Xylene	60.6	ug/kg	50.0	0.00	121	75-125			
m,p-Xylenes	124	ug/kg	100	0.00	124	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>48.9</i>	<i>ug/kg</i>	<i>50.0</i>		<i>97.9</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>54.8</i>	<i>ug/kg</i>	<i>50.0</i>		<i>110</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.7</i>	<i>ug/kg</i>	<i>50.0</i>		<i>97.3</i>	<i>75-125</i>			



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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0161 - 5030 (Continued)</b>				<b>Prepared: 01/11/2021 16:03</b>						
Matrix Spike (B1A0161-MS2)				<b>Source: BCA0063-02</b>						
				<b>Analyzed: 01/12/2021 15:19</b>						
Benzene	49.7		ug/kg	50.0	0.00	99.4	75-125			
Carbon tetrachloride	47.4		ug/kg	50.0	0.00	94.7	75-125			
Chlorobenzene	51.7		ug/kg	50.0	0.00	103	75-125			
Chloroform (Trichloromethane)	56.3		ug/kg	50.0	0.00	113	75-125			
1,2-Dichlorobenzene	45.2		ug/kg	50.0	0.00	90.5	75-125			
1,1-Dichloroethane	54.6		ug/kg	50.0	0.00	109	75-125			
1,1-Dichloroethene	52.6		ug/kg	50.0	0.00	105	75-125			
cis-1,2-Dichloroethene	57.7		ug/kg	50.0	0.00	115	75-125			
Ethylbenzene	53.7		ug/kg	50.0	0.00	107	75-125			
Isopropylbenzene	48.8		ug/kg	50.0	0.00	97.6	75-125			
Methyl-tert-butyl ether (MTBE)	50.0		ug/kg	50.0	0.00	99.9	75-125			
n-Propylbenzene	48.8		ug/kg	50.0	0.00	97.5	75-125			
Toluene (Methyl benzene)	49.9		ug/kg	50.0	0.00	99.8	75-125			
1,1,1-Trichloroethane	46.8		ug/kg	50.0	0.00	93.6	75-125			
1,1,2-Trichloroethane	54.8		ug/kg	50.0	0.00	110	75-125			
Trichloroethene	55.9		ug/kg	50.0	0.00	112	75-125			
1,2,4-Trimethylbenzene	50.3		ug/kg	50.0	0.00	101	75-125			
1,3,5-Trimethylbenzene	47.4		ug/kg	50.0	0.00	94.7	75-125			
o-Xylene	51.9		ug/kg	50.0	0.00	104	75-125			
m,p-Xylenes	105		ug/kg	100	0.00	105	75-125			
<i>Surrogate: Bromofluorobenzene</i>	<i>49.4</i>		<i>ug/kg</i>	<i>50.0</i>		<i>98.8</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.0</i>		<i>ug/kg</i>	<i>50.0</i>		<i>114</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.5</i>		<i>ug/kg</i>	<i>50.0</i>		<i>97.1</i>	<i>75-125</i>			

<b>Matrix Spike Dup (B1A0161-MSD1)</b>				<b>Source: BCA0058-01</b>						
				<b>Analyzed: 01/12/2021 14:38</b>						
Benzene	53.9		ug/kg	50.0	0.00	108	75-125	4.12	20	
Carbon tetrachloride	54.0		ug/kg	50.0	0.00	108	75-125	4.59	20	
Chlorobenzene	57.3		ug/kg	50.0	0.00	115	75-125	3.50	20	
Chloroform (Trichloromethane)	59.7		ug/kg	50.0	0.00	119	75-125	3.23	20	
1,2-Dichlorobenzene	53.1		ug/kg	50.0	0.00	106	75-125	3.09	20	
1,1-Dichloroethane	58.5		ug/kg	50.0	0.00	117	75-125	4.33	20	
1,1-Dichloroethene	58.9		ug/kg	50.0	0.00	118	75-125	5.63	20	
cis-1,2-Dichloroethene	61.5		ug/kg	50.0	0.00	123	75-125	4.59	20	
Ethylbenzene	61.3		ug/kg	50.0	0.00	123	75-125	4.34	20	
Isopropylbenzene	58.4		ug/kg	50.0	0.00	117	75-125	4.67	20	
Methyl-tert-butyl ether (MTBE)	47.6		ug/kg	50.0	0.00	95.1	75-125	<1.00	20	
n-Propylbenzene	59.9		ug/kg	50.0	0.00	120	75-125	4.17	20	
Toluene (Methyl benzene)	55.5		ug/kg	50.0	0.00	111	75-125	4.41	20	
1,1,1-Trichloroethane	52.7		ug/kg	50.0	0.00	105	75-125	4.82	20	
1,1,2-Trichloroethane	52.7		ug/kg	50.0	0.00	105	75-125	<1.00	20	
Trichloroethene	64.9		ug/kg	50.0	0.00	130	75-125	<1.00	20	M
1,2,4-Trimethylbenzene	60.1		ug/kg	50.0	0.00	120	75-125	3.89	20	



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Southern California Edison Company 1 Innovation Way Pomona, CA 91768	AETL Job Number: BCA0026 Project Number: IO# 347354 Attention: Ryan Castillo Project Name: WCI- Rubicon	Site: Downey Substation 11228 Brookshire Ave. Downey, CA 90241 Reported: 01/13/2021 15:35
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## Quality Control Results

### Volatile Organic Compounds (EPA 8260B)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
<b>Batch: B1A0161 - 5030 (Continued)</b>				<b>Prepared: 01/11/2021 16:03</b>						
Matrix Spike Dup (B1A0161-MSD1)				<b>Source: BCA0058-01</b>						
				<b>Analyzed: 01/12/2021 14:38</b>						
1,3,5-Trimethylbenzene	52.2		ug/kg	50.0	0.00	104	75-125	15.7	20	
o-Xylene	58.2		ug/kg	50.0	0.00	116	75-125	4.18	20	
m,p-Xylenes	119		ug/kg	100	0.00	119	75-125	4.52	20	
<i>Surrogate: Bromofluorobenzene</i>	<i>49.0</i>		<i>ug/kg</i>	<i>50.0</i>		<i>98.0</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>55.1</i>		<i>ug/kg</i>	<i>50.0</i>		<i>110</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.9</i>		<i>ug/kg</i>	<i>50.0</i>		<i>97.8</i>	<i>75-125</i>			
<b>Matrix Spike Dup (B1A0161-MSD2)</b>				<b>Source: BCA0063-02</b>						
				<b>Analyzed: 01/12/2021 16:00</b>						
Benzene	17.8		ug/kg	50.0	0.00	35.7	75-125	94.4	20	M
Carbon tetrachloride	23.6		ug/kg	50.0	0.00	47.1	75-125	67.1	20	M
Chlorobenzene	9.41		ug/kg	50.0	0.00	18.8	75-125	138	20	M
Chloroform (Trichloromethane)	30.1		ug/kg	50.0	0.00	60.3	75-125	60.5	20	M
1,2-Dichlorobenzene	4.30		ug/kg	50.0	0.00	8.60	75-125	165	20	M
1,1-Dichloroethane	30.8		ug/kg	50.0	0.00	61.6	75-125	55.7	20	M
1,1-Dichloroethene	45.5		ug/kg	50.0	0.00	91.0	75-125	14.5	20	
cis-1,2-Dichloroethene	25.3		ug/kg	50.0	0.00	50.6	75-125	78.1	20	M
Ethylbenzene	8.44		ug/kg	50.0	0.00	16.9	75-125	146	20	M
Isopropylbenzene	5.42		ug/kg	50.0	0.00	10.8	75-125	160	20	M
Methyl-tert-butyl ether (MTBE)	33.3		ug/kg	50.0	0.00	66.6	75-125	40.0	20	M
n-Propylbenzene	4.70		ug/kg	50.0	0.00	9.40	75-125	165	20	M
Toluene (Methyl benzene)	11.4		ug/kg	50.0	0.00	22.7	75-125	126	20	M
1,1,1-Trichloroethane	31.0		ug/kg	50.0	0.00	62.1	75-125	40.5	20	M
1,1,2-Trichloroethane	20.1		ug/kg	50.0	0.00	40.2	75-125	92.7	20	M
Trichloroethene	17.8		ug/kg	50.0	0.00	35.5	75-125	104	20	M
1,2,4-Trimethylbenzene	4.27		ug/kg	50.0	0.00	8.54	75-125	169	20	M
1,3,5-Trimethylbenzene	4.16		ug/kg	50.0	0.00	8.32	75-125	168	20	M
o-Xylene	7.40		ug/kg	50.0	0.00	14.8	75-125	150	20	M
m,p-Xylenes	11.8		ug/kg	100	0.00	11.8	75-125	159	20	M
<i>Surrogate: Bromofluorobenzene</i>	<i>68.0</i>		<i>ug/kg</i>	<i>50.0</i>		<i>136</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>76.5</i>		<i>ug/kg</i>	<i>50.0</i>		<i>153</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.3</i>		<i>ug/kg</i>	<i>50.0</i>		<i>103</i>	<i>75-125</i>			



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## Qualifiers and Definitions

ITEM	Qualifiers
M	The spike recovery for this QC sample is outside of established control limits possibly due to sample matrix interference. Laboratory Control Samples(LCS/LCSD) recovery were acceptable.
S6	Surrogate recovery is outside control limits due to matrix interference.

ITEM	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter



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- OSHA Occupational Safety and Health Administration
- PCB Polychlorinated Biphenyl
- RL Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
- RPD Relative Percent Difference
- SIM Selective Ion Monitoring
- SPLP Synthetic Precipitation Leaching Procedure
- STLC Soluble Threshold Limit Concentration
- TCLP Toxicity Characteristic Leaching Procedure
- TPH Total Petroleum Hydrocarbons
- TTLC Total Threshold Limit Concentrations
- ug/kg Micrograms per Kilogram
- ug/L Micrograms per Liter
- ug/m3 Micrograms per cubic meter
- WET Waste Extraction Test
- Y Yes
- ZHE Zero Headspace Extraction



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51232127513	Expiration Date 5/21/2022	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: SOUTHERN CALIFORNIA EDISON CRATER SUBSTATION			
Generator Site Address: N/O MULHOLLAND HWY AND LAS VIRGENES RD			
City: AGOURA HILLS	County:	State: CA	Zip:
Name of Waste: NON HAZ SOIL GENERATED FROM CLEANUP			
Estimated Annual Volume: 3 Cubic Yards			

**II. Special Waste Department Decision:**  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Deep Well  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Special Waste Analyst Signature: Joseph M. Sorokach

Date: 5/21/2021

Name (Printed): Joseph Sorokach

**III. Facility Decision:**  Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: [Signature]

Date: 5/21/2021

Name (Printed): Chris Ceylan



# Special Waste Profile



Disposal Facility 5123 Sunshine Canyon andf CA

Waste Profile # 5123 21 27513

Sales Rep # Kelly Kidd

## I. Generator Information

Generator Name **Southern California Edison Crater Substation**

Generator Site Address **N/o Mulholland Hwy. & Las Virgenes Rd.**

City **Agoura Hills** County **Los Angeles** State **California** Zip **91301**

State D/Reg No **N/A** State Approval/Waste Code **611** NA CS # **22112**

Generator Mailing Address  (different) **P.O. Box 5085**

City **Rosemead** County **Los Angeles** State **California** Zip **91770**

Generator Contact Name **Jason J. Thomas** Email **jason.thomas@sce.com**

Phone Number **626-302-3105** Ext.  Fax Number

## II. Billing Information

Billed To **Roberson Waite Electric** Contact Name **Eric Alfaro**

Billing Address **174 Liberty Avenue** Email **frank.tapia@roberson-waite**

City **Anaheim** State **California** Zip **92801** Phone **714-698-0903**

## III. Waste Stream Information

Name of Waste **Non Hazardous Soil generated from cleanup**

Process Generating Waste **Substation construction. Soil removal to accomodate equipment relocation.**

Type of Waste **Industrial Process Waste** Physical State **Solid** Method of Shipment **Bulk**

Estimated Volume **3** Volume Type **Cubic Yards**

Frequency **One-time Event (single process)** Disposal Consideration **andf**

## IV. Representative Sample Certification

No Sample Taken

Sample Taken Type of Sample **Composite and Grab**

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No

Sample Date **5/4/21**

Sample ID Numbers or SDS **S1,HA1-0.5,HA1-2.0,HA1-Comp AC1, AC2**

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

### V. Physical Characteristics of Waste

Characteristic Components (must equal 100%)	% By Weight (out of 100% - ranges acceptable)
1 Soil	100
2	
3	
4	
5	

Color	Odor (describe)	Does Waste Contain Requirements?	% Solids	pH	ash Point
Brown	None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	100	6-7	N/A

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

### RCRA Regulatory Questions

1 Does this waste require a permit for transport or disposal under RCRA (as defined by 40 CFR 261.33)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2 Does this waste contain lead (greater than 500 ppm) or cyanide (greater than 250 ppm) [see also 40 CFR 261.23(a)(5)]?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3 Does this waste contain regulated PCBs as defined by 40 CFR Part 761?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4 Does this waste contain hazardous waste as defined by 40 CFR 261.31, 261.32, 261.33, and RCRA F-listed Solvents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5 Is this waste listed under 40 CFR 260.20 and 260.22? Yes, as a hazardous waste as published in the Federal Register	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6 Does this waste exhibit hazardous characteristics defined by Federal or State regulations? Yes, describe applicable code and specify the hazardous as defined by Federal, State or local?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="text"/>
7 Does this waste contain regulated toxic substances (2,3,7,8 TCCD), or any other dioxins as defined by 40 CFR 261.31?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8 Is this regulated Medical or Toxic Waste as defined by Federal or State regulations?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9 Is this regulated Radioactive Waste as defined by Federal or State regulations?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10 Is this solid waste a hazardous waste according to 40 CFR 261.4(b)? Yes, please provide the corresponding regulation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="text"/>

### Republic Services Waste Handling Questions

1 Does this waste generate a waste manifest or invoice?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2 Does this waste come from a manufacturer?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3 Is this waste generated in a State of Federal Superfund site subject to CERCLA?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4a Is this waste from a TSD facility, TSD facility or contractor (employee or contractor)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4b Yes to the above question, please provide clarification.	<input type="text"/>

## VI. Certification

*I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.*

*I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.*

*I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.*

*If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.*

*I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.*

Jason J. Thomas

Authorized Representative Name  
(Printed)

Technical Specialist III

Title  
(Printed)

Southern California Edison

Company Name



Representative Signature

5/21/21

Date

## Waste Characterization Investigation Report

**Project Name:** Crater Sub **Report Date:** 5/6/2021  
**Report Requester:** Christy Arencibia **SAP/WO Number:** 902855563  
**WCI Contact:** Amy Mora **Phone:** (626) 703-8099  
**Field Env. Advisor:** Andres E Melendez **Phone:** (805) 654-7489  
**Project Description:** Install new duct bank

**Waste with Special Handling Requirements?** Yes  No

Material	Hazardous	PCB Waste (>50 ppm)	Non-Hazardous	Eligible for Recycling?	Area	SCE-Approved Disposal Facility
Soil	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Disposal - Simi Valley Landfill 2801 Madera Road, Simi Valley, CA 93065 (818) 767-0700  Disposal - Sunshine Canyon Landfill 14747 San Fernando Road, Sylmar, CA 91342 (818) 274-9554
Asphalt	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		Recycling - Simi Valley Landfill 2801 Madera Road, Simi Valley, CA 93065 (818) 767-0700  Recycling - State Ready Mix 3127 West Los Angeles Avenue, Ventura, CA 93030 (805) 647 2817
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Attachments:

- A. Site plan showing sample locations
- C. Photos
- B. Laboratory data tables
- D. Laboratory analytical report

**Notes:**

Ensure disposal facility agrees to accept waste prior to shipping! Coordinate with WCI contact if needed.

If the contractor would like to use a disposal facility not recommended on this cover page, they must get written approval from Field Env. Advisor or WCI contact.

Soil is impacted with cadmium and cannot be reused onsite, and must be shipped to the listed disposal facilities. For 'disposal' facilities, you may need to fill out an online profile at least one week prior to shipping waste. Delays in this may cause delays in shipping. You may reach out to the WCI contact for assistance with the online form. The facilities listed as 'recycling' do not require profiling, and therefore should not need assistance to gain entry, but calling the facility prior to shipping is strongly recommended. Use of facilities outside of those referenced on this page requires approval from the WCI contact.

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# *Attachment A*

*Site Plan Showing Sampling Locations*



**Legend**

- Site Boundary
- Soil/Hand Auger Sampling Location
- Soil Stockpile Sampling Location
- Asphalt Stockpile Sampling Location

REFERENCE:  
Google Earth, 2021

Figure 1

**Site Plan Showing Sampling Locations**

Crater Substation  
N/o Mulholland Hwy. & Las Virgenes Rd.  
Agoura Hills, CA 91301



# ***Attachment B***

## *Laboratory Data Table*

# Attachment B - Laboratory Data Table

## Crater Substation

N/o Mu ho and Hwy. & Las V rgenes Rd.  
Agoura H s, CA 91301

Sample Identification:	S1	HA1-0.5	HA1-2.0	HA1-Comp	Screening Levels	Waste Screening Limits		
	Soil	Soil	Soil	Soil		TTLc	STLC x10	TCLP x20
Sample Matrix:	Soil	Soil	Soil	Soil				
Date Sampled:	5/4/21	5/4/21	5/4/21	5/4/21				
Sample Depth (ft):	Stockpile	0.5	2.0	****				
<b>TPH by EPA 8015G/D</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
TPH Purgeable (C4 to C12)	<10 0	-	-	<10 0	110	-	-	-
TPH Extractable (C13 to C22)	<10 0	-	-	<10 0	2,500	-	-	-
TPH as Heavy Hydrocarbons (C23 to C40)	<100 0	-	-	<100 0	2,500	-	-	-
<b>Title 22 Metals by EPA 6010B/7000</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Antimony	<5 00	-	-	<4 99	470	500	150	-
Arsenic	5.42	-	-	5.58	12	500	50	100
Barium	85.2	-	-	91.8	220,000	10,000	1,000	2,000
Beryllium	<2 50	-	-	<2 49	210*	75	8	-
Cadmium	7.03	-	-	7.59	7.3*	100	10	20
Chromium	16.4	-	-	16.7	170,000*	2,500	50	100
Cobalt	8.00	-	-	8.03	350	8,000	800	-
Copper	17.7	-	-	17.7	47,000	2,500	250	-
Lead	<5 00	-	-	<4 99	320*	1,000	50	100
Mercury	<0 199	-	-	<0 200	4.5*	20	2	4
Molybdenum	11.8	-	-	12.2	5,800	3,500	3,500	-
Nickel	25.0	-	-	25.4	3,100*	2,000	200	-
Selenium	<5 00	-	-	<4 99	5,800	100	10	20
Silver	<5 00	-	-	<4 99	1,500*	500	50	100
Thallium	<5 00	-	-	<4 99	12	700	70	-
Vanadium	58.9	-	-	54.1	1,000*	2,400	240	-
Zinc	65.6	-	-	66.9	350,000	5,000	2,500	-
<b>PCBs by EPA 8082</b>	<b>mg/kg-dry</b>	<b>mg/kg-dry</b>	<b>mg/kg-dry</b>	<b>mg/kg-dry</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Aroclor 1016 (PCB 1016)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1221 (PCB 1221)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1232 (PCB 1232)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1242 (PCB 1242)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1248 (PCB 1248)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1254 (PCB 1254)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1260 (PCB 1260)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1262 (PCB 1262)	<1 0	<1 0	<1 0	-	1.0	50	50	-
Aroclor 1268 (PCB 1268)	<1 0	<1 0	<1 0	-	1.0	50	50	-

**NOTES**

mg/kg: Milligrams per kilogram (parts per million)  
 µg/kg: Micrograms per kilogram (parts per billion)  
 <: Not detected at or above the indicated laboratory practical quantitation limit (PQL)  
 -: Not analyzed or not available  
 PCB: WCI Program Screening Level  
 STLC: Soluble Threshold Limit Concentration  
 TCLP: Toxicity Characteristic Leaching Procedure  
 TPH: Total Petroleum Hydrocarbons  
 TTLc: Total Threshold Limit Concentration

Screening Level Exceedance	
Hazardous Waste Criteria Exceedance	
Hazardous Waste	

\*\*\*\* - This is a composite sample created in the laboratory by homogenizing aliquots of equal size from discrete samples collected at 0.5, 2.0, 3.5 and 5.0 feet below ground surface.

Screening Levels:  
 TPH: EPA Region 9 Industrial Regional Scening Levels (RSLs), lowest value chosen between Aliphatic/Aromatic  
 Metals: Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO)  
 Industrial Human Health Risk Assessment (HHRA) values denoted by \*, all other values EPA Region 9 RSLs  
 Arsenic: DTSC Regional Background Concentration  
 PCBs: DTSC HERO Industrial HHRA value denoted by \*, all other values EPA Region 9 RSLs



# Attachment B - Laboratory Data Table

## Crater Substation

N/o Mu ho and Hwy. & Las V rgenes Rd.  
Agoura H s, CA 91301

Sample Identification:	AC1	AC2	Screening Levels	Waste Screening Limits		
	Asphalt	Asphalt		TTLc	STLC x10	TCLP x20
Sample Matrix:	Asphalt	Asphalt				
Date Sampled:	5/4/21	5/4/21				
Sample Depth (ft):	Stockpile	Stockpile				
<b>TPH by EPA 8015G/D</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
TPH Purgeable (C4 to C12)	-	-	110	-	-	-
TPH Extractable (C13 to C22)	-	-	2,500	-	-	-
TPH as Heavy Hydrocarbons (C23 to C40)	-	-	2,500	-	-	-
<b>Title 22 Metals by EPA 6010B/7000</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Antimony	<5 00	<5 00	470	500	150	-
Arsenic	<2 50	<2 50	12	500	50	100
Barium	146	53.3	220,000	10,000	1,000	2,000
Beryllium	<2 50	<2 50	210*	75	8	-
Cadmium	<2 50	<2 50	7 3*	100	10	20
Chromium	9.45	6.35	170,000*	2,500	50	100
Cobalt	9.54	<5 00	350	8,000	800	-
Copper	17.9	11.6	47,000	2,500	250	-
Lead	<5 00	28.3	320*	1,000	50	100
Mercury	0.205	<0 199	4 5*	20	2	4
Molybdenum	<5 00	<5 00	5,800	3,500	3,500	-
Nickel	17.5	20.2	3,100*	2,000	200	-
Selenium	<5 00	<5 00	5,800	100	10	20
Silver	<5 00	<5 00	1,500*	500	50	100
Thallium	<5 00	<5 00	12	700	70	-
Vanadium	33.9	41.9	1,000*	2,400	240	-
Zinc	33.6	44.4	350,000	5,000	2,500	-
<b>PCBs by EPA 8082</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>	<b>mg/kg</b>
Aroclor 1016 (PCB 1016)	<1 0	<1 0	1 0	50	50	-
Aroclor 1221 (PCB 1221)	<1 0	<1 0	1 0	50	50	-
Aroclor 1232 (PCB 1232)	<1 0	<1 0	1 0	50	50	-
Aroclor 1242 (PCB 1242)	<1 0	<1 0	1 0	50	50	-
Aroclor 1248 (PCB 1248)	<1 0	<1 0	1 0	50	50	-
Aroclor 1254 (PCB 1254)	<1 0	<1 0	1 0	50	50	-
Aroclor 1260 (PCB 1260)	<1 0	<1 0	1 0	50	50	-
Aroclor 1262 (PCB 1262)	<1 0	<1 0	1 0	50	50	-
Aroclor 1268 (PCB 1268)	<1 0	<1 0	1 0	50	50	-

**NOTES**

mg/kg: Milligrams per kilogram (parts per million)  
 µg/kg: Micrograms per kilogram (parts per billion)  
 <: Not detected at or above the indicated laboratory practical  
 quantitation limit (PQL)  
 -: Not analyzed or not available  
 PCB: WCI Program Screening Level  
 STLC: Soluble Threshold Limit Concentration  
 TCLP: Toxicity Characteristic Leaching Procedure  
 TPH: Total Petroleum Hydrocarbons  
 TTLc: Total Threshold Limit Concentration

Screening Level Exceedance	
Hazardous Waste Criteria Exceedance	
Hazardous Waste	

Screening Levels:  
 TPH: EPA Region 9 Industrial Regional Screening Levels (RSLs), lowest value chosen between Aliphatic/Aromatic  
 Metals: Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO)  
 Industrial Human Health Risk Assessment (HHRA) values denoted by \*, all other values EPA Region 9 RSLs  
 Arsenic: DTSC Regional Background Concentration  
 PCBs: DTSC HERO Industrial HHRA value denoted by \*, all other values EPA Region 9 RSLs

# *Attachment C*

*Photos*



**Photograph #1**

**Description of Photograph:**

Sample location S1 facing northwest

**Site Location:**

Crater Substation  
N/o Mulholland Hwy. &  
Las Virgenes Rd.  
Agoura Hills, CA 91301

**Photo Taken By:**

Josh Sandige

**Date of Photograph:**

May 4, 2021



**Photograph #2**

**Description of Photograph:**

Sample location HA1 facing north

**Site Location:**

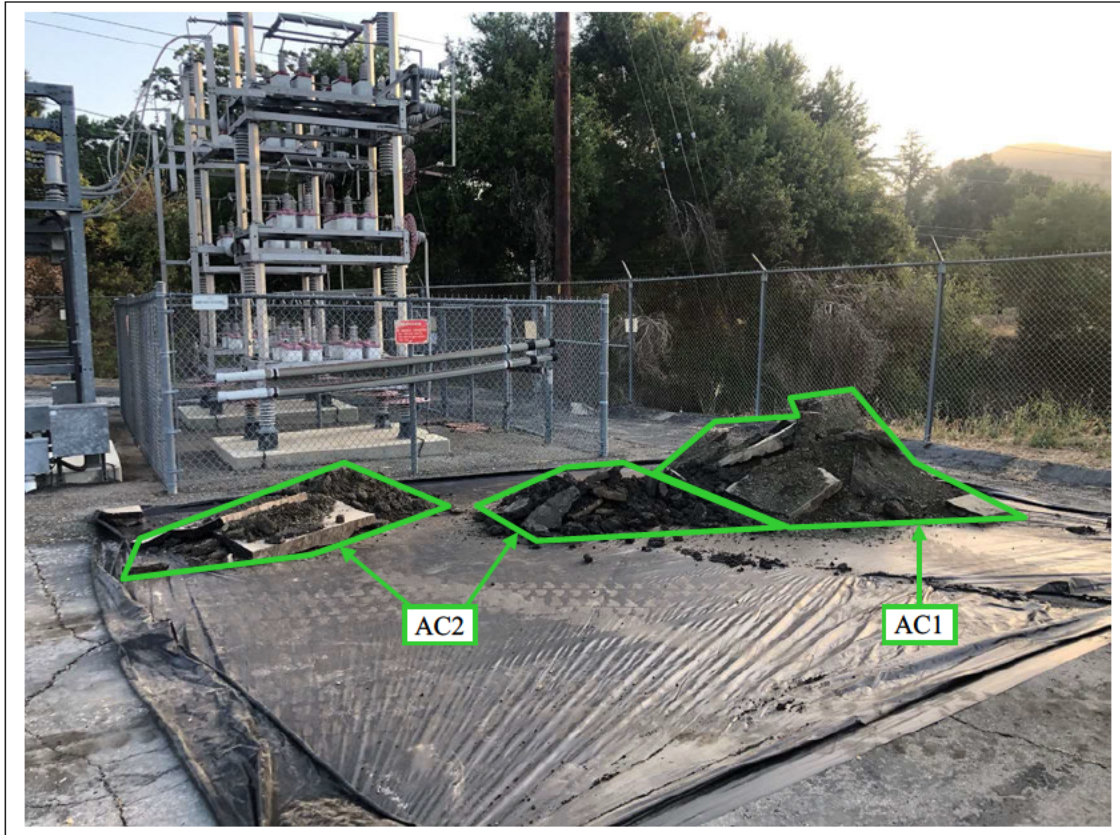
Crater Substation  
N/o Mulholland Hwy & Las  
Virgenes Rd.  
Agoura Hills, CA 91301

**Photo Taken By:**

Josh Sandige

**Date of Photograph:**

May 4, 2021



**Photograph #3**

**Description of Photograph:**

Sample locations AC1 and AC2 facing north

**Site Location:**

Crater Substation  
N/o Mulholland Hwy. & Las Virgenes Rd.  
Agoura Hills, CA 91301

**Photo Taken By:**

Josh Sandige

**Date of Photograph:**

May 4, 2021

# ***Attachment D***

*Laboratory Analytical Report*

May 05, 2021

Amy Mora/Josh Sandige  
Rubicon Engineering Corporation  
12831 Newport Avenue, Suite 200  
Tustin, CA 92780

TEL: (714) 573-0081

FAX: (714) 573-0082

Workorder No.: N045255

RE: Crater Sub Conduit, SAP# 902855563

Attention: Amy Mora/Josh Sandige

Enclosed are the results for sample(s) received on May 04, 2021 by ASSET Laboratories. The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562) 219-7435 if I can be of further assistance to your company.

Sincerely,



Andrew Garaniel  
Laboratory Director

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---

**CLIENT:** Rubicon Engineering Corporation  
**Project:** Crater Sub Conduit, SAP# 902855563  
**Lab Order:** N045255

---

**CASE NARRATIVE**

**SAMPLE RECEIVING/GENERAL COMMENTS:**

All sample containers were received intact with proper chain of custody documentation.

Information on sample receipt conditions including discrepancies can be found in attached Sample Receipt Checklist Form.

Cooler temperature and sample preservation were verified upon receipt of samples if applicable.

Samples were analyzed within method holding time.

**Analytical Comments for EPA 8082:**

Surrogates recovery was below the laboratory acceptable limit in sample N045255-002 possibly caused by matrix effect. Sample extracts were dark & viscous, clean up was necessary.

**Analytical comments for EPA 6010B:**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria on some analytes possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.

**Analytical comments for EPA 7471A:**

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) are outside recovery criteria possibly due to matrix interference. The associated Laboratory Control Sample (LCS) recovery was acceptable.



**ASSET Laboratories**

Date: 05-May-21

**CLIENT:** Rubicon Engineering Corporation  
**Project:** Crater Sub Conduit, SAP# 902855563  
**Lab Order:** N045255  
**Contract No:**

**Work Order Sample Summary**

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
N045255-001A	AC1	Asphalt	5/4/2021 7:00:00 AM	5/4/2021	5/5/2021
N045255-001B	AC1	Asphalt	5/4/2021 7:00:00 AM	5/4/2021	5/5/2021
N045255-002A	AC2	Asphalt	5/4/2021 7:15:00 AM	5/4/2021	5/5/2021
N045255-002B	AC2	Asphalt	5/4/2021 7:15:00 AM	5/4/2021	5/5/2021
N045255-003A	HA1-0.5	Soil	5/4/2021 7:25:00 AM	5/4/2021	5/5/2021
N045255-004A	HA1-2.0	Soil	5/4/2021 7:30:00 AM	5/4/2021	5/5/2021
N045255-005A	HA1-3.5	Soil	5/4/2021 7:35:00 AM	5/4/2021	5/5/2021
N045255-006A	HA1-5.0	Soil	5/4/2021 7:40:00 AM	5/4/2021	5/5/2021
N045255-007A	HA1-COMP	Soil	5/4/2021	5/4/2021	5/5/2021
N045255-007B	HA1-COMP	Soil	5/4/2021	5/4/2021	5/5/2021
N045255-008A	S1	Soil	5/4/2021 8:00:00 AM	5/4/2021	5/5/2021



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**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 05-May-21

<b>CLIENT:</b>	Rubicon Engineering Corporation	<b>Client Sample ID:</b>	AC1
<b>Lab Order:</b>	N045255	<b>Collection Date:</b>	5/4/2021 7:00:00 AM
<b>Project:</b>	Crater Sub Conduit, SAP# 902855563	<b>Matrix:</b>	ASPHALT
<b>Lab ID:</b>	N045255-001		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b>						
<b>D2216</b>						
RunID: NV00922-WC_210505B	QC Batch: R152512				PrepDate:	Analyst: LR
Percent Moisture	0.4893	0.1000		wt%	1	5/5/2021 08:45 AM
<b>PCBS BY GC/ECD</b>						
<b>EPA 3546</b>			<b>EPA 8082</b>			
RunID: NV00922-GC14_210505A	QC Batch: 87398				PrepDate:	5/5/2021 Analyst: LLR
Aroclor 1016	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1221	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1232	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1242	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1248	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1254	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1260	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1262	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Aroclor 1268	ND	1.00		mg/Kg-dry	5	5/5/2021 11:52 AM
Surr: Decachlorobiphenyl	55.8	29-116		%REC	5	5/5/2021 11:52 AM
Surr: Tetrachloro-m-xylene	56.6	25-118		%REC	5	5/5/2021 11:52 AM
<b>TOTAL MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471A</b>						
RunID: NV00922-AA2_210505A	QC Batch: 87388				PrepDate:	5/5/2021 Analyst: DJ
Mercury	0.205	0.199		mg/Kg	1	5/5/2021 09:09 AM
<b>TOTAL METALS BY ICP</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: NV00922-ICP2_210505C	QC Batch: 87387				PrepDate:	5/5/2021 Analyst: DJ
Antimony	ND	5.00		mg/Kg	1	5/5/2021 01:12 PM
Arsenic	ND	2.50		mg/Kg	1	5/5/2021 01:12 PM
Barium	146	5.00		mg/Kg	1	5/5/2021 01:12 PM
Beryllium	ND	2.50		mg/Kg	1	5/5/2021 01:12 PM
Cadmium	ND	2.50		mg/Kg	1	5/5/2021 01:12 PM
Chromium	9.45	5.00		mg/Kg	1	5/5/2021 01:12 PM
Cobalt	9.54	5.00		mg/Kg	1	5/5/2021 01:12 PM
Copper	17.9	5.00		mg/Kg	1	5/5/2021 01:12 PM
Lead	ND	5.00		mg/Kg	1	5/5/2021 01:12 PM
Molybdenum	ND	5.00		mg/Kg	1	5/5/2021 01:12 PM
Nickel	17.5	5.00		mg/Kg	1	5/5/2021 01:12 PM
Selenium	ND	5.00		mg/Kg	1	5/5/2021 01:12 PM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**ANALYTICAL RESULTS**

Print Date: 05-May-21

**CLIENT:** Rubicon Engineering Corporation  
**Lab Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563  
**Lab ID:** N045255-001

**Client Sample ID:** AC1  
**Collection Date:** 5/4/2021 7:00:00 AM  
**Matrix:** ASPHALT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**TOTAL METALS BY ICP**

	EPA 3050B		EPA 6010B			
RunID: NV00922-ICP2_210505C	QC Batch:	87387			PrepDate:	5/5/2021 Analyst: DJ
Silver		ND	5.00	mg/Kg	1	5/5/2021 01:12 PM
Thallium		ND	5.00	mg/Kg	1	5/5/2021 01:12 PM
Vanadium		33.9	5.00	mg/Kg	1	5/5/2021 01:12 PM
Zinc		33.6	5.00	mg/Kg	1	5/5/2021 01:12 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference  
 DO Surrogate Diluted Out  
 E Value above quantitation range  
 ND Not Detected at the Reporting Limit  
 Results are wet unless otherwise specified



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**ANALYTICAL RESULTS**

Print Date: 05-May-21

<b>CLIENT:</b>	Rubicon Engineering Corporation	<b>Client Sample ID:</b>	AC2
<b>Lab Order:</b>	N045255	<b>Collection Date:</b>	5/4/2021 7:15:00 AM
<b>Project:</b>	Crater Sub Conduit, SAP# 902855563	<b>Matrix:</b>	ASPHALT
<b>Lab ID:</b>	N045255-002		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b>						
<b>D2216</b>						
RunID: NV00922-WC_210505B	QC Batch: R152512			PrepDate:		Analyst: LR
Percent Moisture	0.6175	0.1000		wt%	1	5/5/2021 08:45 AM
<b>PCBS BY GC/ECD</b>						
<b>EPA 3546</b>			<b>EPA 8082</b>			
RunID: NV00922-GC14_210505A	QC Batch: 87398			PrepDate:	5/5/2021	Analyst: LLR
Aroclor 1016	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1221	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1232	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1242	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1248	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1254	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1260	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1262	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Aroclor 1268	ND	1.00		mg/Kg-dry	5	5/5/2021 12:15 PM
Surr: Decachlorobiphenyl	22.2	29-116	S	%REC	5	5/5/2021 12:15 PM
Surr: Tetrachloro-m-xylene	20.8	25-118	S	%REC	5	5/5/2021 12:15 PM
<b>TOTAL MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471A</b>						
RunID: NV00922-AA2_210505A	QC Batch: 87388			PrepDate:	5/5/2021	Analyst: DJ
Mercury	ND	0.199		mg/Kg	1	5/5/2021 09:12 AM
<b>TOTAL METALS BY ICP</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: NV00922-ICP2_210505C	QC Batch: 87387			PrepDate:	5/5/2021	Analyst: DJ
Antimony	ND	5.00		mg/Kg	1	5/5/2021 01:19 PM
Arsenic	ND	2.50		mg/Kg	1	5/5/2021 01:19 PM
Barium	53.3	5.00		mg/Kg	1	5/5/2021 01:19 PM
Beryllium	ND	2.50		mg/Kg	1	5/5/2021 01:19 PM
Cadmium	ND	2.50		mg/Kg	1	5/5/2021 01:19 PM
Chromium	6.35	5.00		mg/Kg	1	5/5/2021 01:19 PM
Cobalt	ND	5.00		mg/Kg	1	5/5/2021 01:19 PM
Copper	11.6	5.00		mg/Kg	1	5/5/2021 01:19 PM
Lead	28.3	5.00		mg/Kg	1	5/5/2021 01:19 PM
Molybdenum	ND	5.00		mg/Kg	1	5/5/2021 01:19 PM
Nickel	20.2	5.00		mg/Kg	1	5/5/2021 01:19 PM
Selenium	ND	5.00		mg/Kg	1	5/5/2021 01:19 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 05-May-21

**CLIENT:** Rubicon Engineering Corporation  
**Lab Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563  
**Lab ID:** N045255-002

**Client Sample ID:** AC2  
**Collection Date:** 5/4/2021 7:15:00 AM  
**Matrix:** ASPHALT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

**TOTAL METALS BY ICP**

RunID:	EPA 3050B		EPA 6010B		PrepDate:	5/5/2021	Analyst: DJ
	QC Batch:	87387					
Silver		ND	5.00	mg/Kg	1		5/5/2021 01:19 PM
Thallium		ND	5.00	mg/Kg	1		5/5/2021 01:19 PM
Vanadium		41.9	5.00	mg/Kg	1		5/5/2021 01:19 PM
Zinc		44.4	5.00	mg/Kg	1		5/5/2021 01:19 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference  
 DO Surrogate Diluted Out  
 E Value above quantitation range  
 ND Not Detected at the Reporting Limit  
 Results are wet unless otherwise specified



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**ASSET Laboratories**

**ANALYTICAL RESULTS**

Print Date: 05-May-21

<b>CLIENT:</b>	Rubicon Engineering Corporation	<b>Client Sample ID:</b>	HA1-0.5
<b>Lab Order:</b>	N045255	<b>Collection Date:</b>	5/4/2021 7:25:00 AM
<b>Project:</b>	Crater Sub Conduit, SAP# 902855563	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N045255-003		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b>						
					<b>D2216</b>	
RunID: NV00922-WC_210505B	QC Batch: R152512				PrepDate:	Analyst: LR
Percent Moisture	13.48	0.1000		wt%	1	5/5/2021 08:45 AM
<b>PCBS BY GC/ECD</b>						
	<b>EPA 3546</b>				<b>EPA 8082</b>	
RunID: NV00922-GC14_210505A	QC Batch: 87398				PrepDate: 5/5/2021	Analyst: LLR
Aroclor 1016	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1221	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1232	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1242	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1248	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1254	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1260	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1262	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Aroclor 1268	ND	1.00		mg/Kg-dry	5	5/5/2021 11:07 AM
Surr: Decachlorobiphenyl	82.4	29-116		%REC	5	5/5/2021 11:07 AM
Surr: Tetrachloro-m-xylene	70.4	25-118		%REC	5	5/5/2021 11:07 AM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**ANALYTICAL RESULTS**

Print Date: 05-May-21

<b>CLIENT:</b>	Rubicon Engineering Corporation	<b>Client Sample ID:</b>	HA1-2.0
<b>Lab Order:</b>	N045255	<b>Collection Date:</b>	5/4/2021 7:30:00 AM
<b>Project:</b>	Crater Sub Conduit, SAP# 902855563	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N045255-004		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b>						
					<b>D2216</b>	
RunID: NV00922-WC_210505B	QC Batch: R152512				PrepDate:	Analyst: LR
Percent Moisture	14.81	0.1000		wt%	1	5/5/2021 08:45 AM
<b>PCBS BY GC/ECD</b>						
	<b>EPA 3546</b>				<b>EPA 8082</b>	
RunID: NV00922-GC14_210505A	QC Batch: 87398				PrepDate: 5/5/2021	Analyst: LLR
Aroclor 1016	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1221	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1232	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1242	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1248	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1254	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1260	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1262	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Aroclor 1268	ND	1.00		mg/Kg-dry	5	5/5/2021 11:29 AM
Surr: Decachlorobiphenyl	91.6	29-116		%REC	5	5/5/2021 11:29 AM
Surr: Tetrachloro-m-xylene	74.7	25-118		%REC	5	5/5/2021 11:29 AM

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**ANALYTICAL RESULTS**

Print Date: 05-May-21

<b>CLIENT:</b>	Rubicon Engineering Corporation	<b>Client Sample ID:</b>	HA1-COMP
<b>Lab Order:</b>	N045255	<b>Collection Date:</b>	5/4/2021
<b>Project:</b>	Crater Sub Conduit, SAP# 902855563	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N045255-007		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**HYDROCARBON CHAIN IDENTIFICATION**

**EPA 3550B**

**EPA 8015B(M)**

RunID: NV00922-GC1_210505A	QC Batch: 87397				PrepDate: 5/5/2021	Analyst: LLR
T/R Hydrocarbons: C13-C22	ND	10.0		mg/Kg	1	5/5/2021 04:25 PM
T/R Hydrocarbons: C23-C40	ND	100		mg/Kg	1	5/5/2021 04:25 PM
Surr: p-Terphenyl	108	56-133		%REC	1	5/5/2021 04:25 PM

**GASOLINE RANGE ORGANICS BY GC/FID**

**EPA 8015B(M)**

RunID: NV00922-GC4_210504A	QC Batch: E21VS051				PrepDate: 5/4/2021	Analyst: BH
GRO (C4 - C12)	ND	10.0		mg/Kg	1	5/4/2021 07:47 PM
Surr: Chlorobenzene - d5	92.0	54-160		%REC	1	5/4/2021 07:47 PM

**TOTAL MERCURY BY COLD VAPOR TECHNIQUE**

**EPA 7471A**

RunID: NV00922-AA2_210505A	QC Batch: 87388				PrepDate: 5/5/2021	Analyst: DJ
Mercury	ND	0.200		mg/Kg	1	5/5/2021 09:16 AM

**TOTAL METALS BY ICP**

**EPA 3050B**

**EPA 6010B**

RunID: NV00922-ICP2_210505C	QC Batch: 87387				PrepDate: 5/5/2021	Analyst: DJ
Antimony	ND	4.99		mg/Kg	1	5/5/2021 01:25 PM
Arsenic	5.58	2.49		mg/Kg	1	5/5/2021 01:25 PM
Barium	91.8	4.99		mg/Kg	1	5/5/2021 01:25 PM
Beryllium	ND	2.49		mg/Kg	1	5/5/2021 01:25 PM
Cadmium	7.59	2.49		mg/Kg	1	5/5/2021 01:25 PM
Chromium	16.7	4.99		mg/Kg	1	5/5/2021 01:25 PM
Cobalt	8.03	4.99		mg/Kg	1	5/5/2021 01:25 PM
Copper	17.7	4.99		mg/Kg	1	5/5/2021 01:25 PM
Lead	ND	4.99		mg/Kg	1	5/5/2021 01:25 PM
Molybdenum	12.2	4.99		mg/Kg	1	5/5/2021 01:25 PM
Nickel	25.4	4.99		mg/Kg	1	5/5/2021 01:25 PM
Selenium	ND	4.99		mg/Kg	1	5/5/2021 01:25 PM
Silver	ND	4.99		mg/Kg	1	5/5/2021 01:25 PM
Thallium	ND	4.99		mg/Kg	1	5/5/2021 01:25 PM
Vanadium	54.1	4.99		mg/Kg	1	5/5/2021 01:25 PM
Zinc	66.9	4.99		mg/Kg	1	5/5/2021 01:25 PM

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	ND Not Detected at the Reporting Limit
	S Spike/Surrogate outside of limits due to matrix interference	Results are wet unless otherwise specified
	DO Surrogate Diluted Out	



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**ANALYTICAL RESULTS**

Print Date: 05-May-21

<b>CLIENT:</b>	Rubicon Engineering Corporation	<b>Client Sample ID:</b>	S1
<b>Lab Order:</b>	N045255	<b>Collection Date:</b>	5/4/2021 8:00:00 AM
<b>Project:</b>	Crater Sub Conduit, SAP# 902855563	<b>Matrix:</b>	SOIL
<b>Lab ID:</b>	N045255-008		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>PERCENT MOISTURE</b>						
<b>D2216</b>						
RunID: NV00922-WC_210505B	QC Batch: R152512				PrepDate:	Analyst: LR
Percent Moisture	16.64	0.1000		wt%	1	5/5/2021 08:45 AM
<b>HYDROCARBON CHAIN IDENTIFICATION</b>						
<b>EPA 3550B</b>			<b>EPA 8015B(M)</b>			
RunID: NV00922-GC1_210505A	QC Batch: 87397				PrepDate:	5/5/2021 Analyst: LLR
T/R Hydrocarbons: C13-C22	ND	10.0		mg/Kg	1	5/5/2021 02:56 PM
T/R Hydrocarbons: C23-C40	ND	100		mg/Kg	1	5/5/2021 02:56 PM
Surr: p-Terphenyl	109	56-133		%REC	1	5/5/2021 02:56 PM
<b>PCBS BY GC/ECD</b>						
<b>EPA 3546</b>			<b>EPA 8082</b>			
RunID: NV00922-GC14_210505A	QC Batch: 87398				PrepDate:	5/5/2021 Analyst: LLR
Aroclor 1016	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1221	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1232	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1242	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1248	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1254	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1260	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1262	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Aroclor 1268	ND	1.00		mg/Kg-dry	5	5/5/2021 09:58 AM
Surr: Decachlorobiphenyl	89.4	29-116		%REC	5	5/5/2021 09:58 AM
Surr: Tetrachloro-m-xylene	67.0	25-118		%REC	5	5/5/2021 09:58 AM
<b>GASOLINE RANGE ORGANICS BY GC/FID</b>						
<b>EPA 8015B(M)</b>						
RunID: NV00922-GC4_210504A	QC Batch: E21VS051				PrepDate:	Analyst: BH
GRO (C4 - C12)	ND	10.0		mg/Kg	1	5/4/2021 08:18 PM
Surr: Chlorobenzene - d5	123	54-160		%REC	1	5/4/2021 08:18 PM
<b>TOTAL MERCURY BY COLD VAPOR TECHNIQUE</b>						
<b>EPA 7471A</b>						
RunID: NV00922-AA2_210505A	QC Batch: 87388				PrepDate:	5/5/2021 Analyst: DJ
Mercury	ND	0.199		mg/Kg	1	5/5/2021 09:19 AM
<b>TOTAL METALS BY ICP</b>						
<b>EPA 3050B</b>			<b>EPA 6010B</b>			
RunID: NV00922-ICP2_210505C	QC Batch: 87387				PrepDate:	5/5/2021 Analyst: DJ

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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**ANALYTICAL RESULTS**

Print Date: 05-May-21

**CLIENT:** Rubicon Engineering Corporation  
**Lab Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563  
**Lab ID:** N045255-008

**Client Sample ID:** S1  
**Collection Date:** 5/4/2021 8:00:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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**TOTAL METALS BY ICP**

	EPA 3050B		EPA 6010B			
RunID: NV00922-ICP2_210505C	QC Batch:	87387			PrepDate:	5/5/2021 Analyst: DJ
Antimony	ND	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Arsenic	5.42	2.50	mg/Kg	1	5/5/2021 01:41 PM	
Barium	85.2	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Beryllium	ND	2.50	mg/Kg	1	5/5/2021 01:41 PM	
Cadmium	7.03	2.50	mg/Kg	1	5/5/2021 01:41 PM	
Chromium	16.4	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Cobalt	8.00	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Copper	17.7	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Lead	ND	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Molybdenum	11.8	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Nickel	25.0	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Selenium	ND	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Silver	ND	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Thallium	ND	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Vanadium	58.9	5.00	mg/Kg	1	5/5/2021 01:41 PM	
Zinc	65.6	5.00	mg/Kg	1	5/5/2021 01:41 PM	

**Qualifiers:** B Analyte detected in the associated Method Blank E Value above quantitation range  
H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit  
S Spike/Surrogate outside of limits due to matrix interference Results are wet unless otherwise specified  
DO Surrogate Diluted Out



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Date: 05-May-21

**CLIENT: Rubicon Engineering Corporation**  
**Work Order: N045255**  
**Project: Crater Sub Conduit, SAP# 902855563**

**TestCode: 6010\_SRUBE**

**ANALYTICAL QC SUMMARY REPORT**

Sample ID: <b>MB-87387</b>	SampType: <b>MBLK</b>	TestCode: <b>6010_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152515</b>						
Client ID: <b>PBS</b>	Batch ID: <b>87387</b>	TestNo: <b>EPA 6010B</b>	EPA <b>3050B</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195018</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Antimony	ND	5.00									
Arsenic	ND	2.50									
Barium	ND	5.00									
Beryllium	ND	2.50									
Cadmium	ND	2.50									
Chromium	ND	5.00									
Cobalt	ND	5.00									
Copper	ND	5.00									
Lead	ND	5.00									
Molybdenum	ND	5.00									
Nickel	ND	5.00									
Selenium	ND	5.00									
Silver	ND	5.00									
Thallium	ND	5.00									
Vanadium	ND	5.00									
Zinc	ND	5.00									

Sample ID: <b>LCS-87387</b>	SampType: <b>LCS</b>	TestCode: <b>6010_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152515</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>87387</b>	TestNo: <b>EPA 6010B</b>	EPA <b>3050B</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195019</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	25.270	5.00	25.00	0	101	80	120				
Arsenic	25.495	2.50	25.00	0	102	80	120				
Barium	25.700	5.00	25.00	0	103	80	120				
Beryllium	25.452	2.50	25.00	0	102	80	120				
Cadmium	25.896	2.50	25.00	0	104	80	120				
Chromium	25.655	5.00	25.00	0	103	80	120				
Cobalt	26.778	5.00	25.00	0	107	80	120				

**Qualifiers:**

B Analyte detected in the associated Method Blank  
 ND Not Detected at the Reporting Limit  
 DO Surrogate Diluted Out

E Value above quantitation range  
 R RPD outside accepted recovery limits  
 Calculations are based on raw values

H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference

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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode: 6010\_SRUBE**

Sample ID: <b>LCS-87387</b>	SampType: <b>LCS</b>	TestCode: <b>6010_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152515</b>
Client ID: <b>LCSS</b>	Batch ID: <b>87387</b>	TestNo: <b>EPA 6010B</b>	EPA <b>3050B</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195019</b>

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	5.00	25.00	0	103	80	120				
Lead	5.00	25.00	0	101	80	120				
Molybdenum	5.00	25.00	0	100	80	120				
Nickel	5.00	25.00	0	103	80	120				
Selenium	5.00	25.00	0	102	80	120				
Silver	5.00	25.00	0	101	80	120				
Thallium	5.00	25.00	0	104	80	120				
Vanadium	5.00	25.00	0	103	80	120				
Zinc	5.00	25.00	0	106	80	120				

Sample ID: <b>N045165-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>6010_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152515</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>87387</b>	TestNo: <b>EPA 6010B</b>	EPA <b>3050B</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195023</b>

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	4.99	24.94	0	59.6	75	125				S
Arsenic	2.49	24.94	0	83.8	75	125				
Barium	4.99	24.94	142.1	117	75	125				
Beryllium	2.49	24.94	0	80.0	75	125				
Cadmium	2.49	24.94	3.798	84.8	75	125				
Chromium	4.99	24.94	20.19	94.0	75	125				
Cobalt	4.99	24.94	12.55	91.8	75	125				
Copper	4.99	24.94	50.27	121	75	125				
Lead	4.99	24.94	96.26	108	75	125				
Molybdenum	4.99	24.94	0	80.2	75	125				
Nickel	4.99	24.94	20.02	95.6	75	125				S
Selenium	4.99	24.94	0	59.8	75	125				
Silver	4.99	24.94	0	81.9	75	125				S
Thallium	4.99	24.94	0	71.3	75	125				S
Vanadium	4.99	24.94	68.24	125	75	125				S
Zinc	4.99	24.94	431.3	216	75	125				S

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values



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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Rubicon Engineering Corporation

**Work Order:** N045255

**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode:** 6010\_SRUBE

Sample ID: <b>N045165-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>6010_SRUBE</b>	Units: <b>mg/Kg</b>
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>87387</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152515</b>
		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195024</b>

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	13.106	5.00	24.99	0	52.4	75	125	14.87	12.6	20	S
Arsenic	20.274	2.50	24.99	0	81.1	75	125	20.89	2.99	20	
Barium	174.361	5.00	24.99	142.1	129	75	125	171.2	1.84	20	S
Beryllium	19.559	2.50	24.99	0	78.3	75	125	19.95	2.00	20	
Cadmium	24.524	2.50	24.99	3.798	82.9	75	125	24.94	1.69	20	
Chromium	43.521	5.00	24.99	20.19	93.4	75	125	43.65	0.287	20	
Cobalt	35.354	5.00	24.99	12.55	91.2	75	125	35.45	0.260	20	
Copper	77.187	5.00	24.99	50.27	108	75	125	80.37	4.04	20	
Lead	115.685	5.00	24.99	96.26	77.8	75	125	123.2	6.29	20	
Molybdenum	19.404	5.00	24.99	0	77.7	75	125	20.00	3.03	20	
Nickel	42.054	5.00	24.99	20.02	88.2	75	125	43.86	4.21	20	
Selenium	13.144	5.00	24.99	0	52.6	75	125	14.90	12.6	20	S
Silver	19.374	5.00	24.99	0	77.5	75	125	20.43	5.33	20	
Thallium	17.819	5.00	24.99	0	71.3	75	125	17.79	0.180	20	S
Vanadium	103.192	5.00	24.99	68.24	140	75	125	99.47	3.68	20	S
Zinc	436.908	5.00	24.99	431.3	22.3	75	125	485.2	10.5	20	S

**Qualifiers:**

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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode: 7471\_SRUBE**

Sample ID: <b>MB-87388</b>	SampType: <b>MBLK</b>	TestCode: <b>7471_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152509</b>						
Client ID: <b>PBS</b>	Batch ID: <b>87388</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4194666</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.200									

Sample ID: <b>LCS-87388</b>	SampType: <b>LCS</b>	TestCode: <b>7471_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152509</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>87388</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4194667</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.430	0.200	0.4167	0	103	80	120				

Sample ID: <b>N045190-001A-MS</b>	SampType: <b>MS</b>	TestCode: <b>7471_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152509</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>87388</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4194684</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	23.355	19.7	0.4112	16.47	1670	75	125				S

Sample ID: <b>N045190-001A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>7471_SRUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152509</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>87388</b>	TestNo: <b>EPA 7471A</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4194685</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	20.281	19.9	0.4139	16.47	920	75	125	23.36	14.1	20	S

**Qualifiers:**

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- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode: 8015GAS\_SRUBE**

<b>Sample ID: E210504LCS</b>		<b>SampType: LCS</b>		<b>TestCode: 8015GAS_SR</b>		<b>Units: mg/Kg</b>		<b>RunNo: 152492</b>	
<b>Client ID: LCSS</b>		<b>Batch ID: E21VS051</b>		<b>TestNo: EPA 8015B(M)</b>				<b>SeqNo: 4194053</b>	
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>
GRO (C4 - C12)	4.539	10.0	5.000	0	90.8	79	134		
Surr: Chlorobenzene - d5	88.458		100.0		88.5	54	160		

<b>Sample ID: E210504LCS</b>		<b>SampType: LCS</b>		<b>TestCode: 8015GAS_SR</b>		<b>Units: mg/Kg</b>		<b>RunNo: 152492</b>	
<b>Client ID: LCSS02</b>		<b>Batch ID: E21VS051</b>		<b>TestNo: EPA 8015B(M)</b>				<b>SeqNo: 4194054</b>	
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>
GRO (C4 - C12)	4.712	10.0	5.000	0	94.2	79	134	4.539	0
Surr: Chlorobenzene - d5	96.929		100.0		96.9	54	160		0

<b>Sample ID: E210504MB</b>		<b>SampType: MBLK</b>		<b>TestCode: 8015GAS_SR</b>		<b>Units: mg/Kg</b>		<b>RunNo: 152492</b>	
<b>Client ID: PBS</b>		<b>Batch ID: E21VS051</b>		<b>TestNo: EPA 8015B(M)</b>				<b>SeqNo: 4194055</b>	
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>
GRO (C4 - C12)	ND	10.0							
Surr: Chlorobenzene - d5	88.233		100.0		88.2	54	160		

<b>Sample ID: N045227-005BMS</b>		<b>SampType: MS</b>		<b>TestCode: 8015GAS_SR</b>		<b>Units: mg/Kg</b>		<b>RunNo: 152492</b>	
<b>Client ID: ZZZZZZ</b>		<b>Batch ID: E21VS051</b>		<b>TestNo: EPA 8015B(M)</b>				<b>SeqNo: 4194057</b>	
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>
GRO (C4 - C12)	6.039	10.0	5.000	0	121	25	166		
Surr: Chlorobenzene - d5	116.521		100.0		117	54	160		

<b>Sample ID: N045227-005BMSD</b>		<b>SampType: MSD</b>		<b>TestCode: 8015GAS_SR</b>		<b>Units: mg/Kg</b>		<b>RunNo: 152492</b>	
<b>Client ID: ZZZZZZ</b>		<b>Batch ID: E21VS051</b>		<b>TestNo: EPA 8015B(M)</b>				<b>SeqNo: 4194058</b>	
<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>SPK value</b>	<b>SPK Ref Val</b>	<b>%REC</b>	<b>LowLimit</b>	<b>HighLimit</b>	<b>RPD Ref Val</b>	<b>%RPD</b>
GRO (C4 - C12)	5.684	10.0	5.000	0	114	25	166	6.039	0

**Qualifiers:**

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DO	Surrogate Diluted Out	Calculations are based on raw values	

H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference



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# ANALYTICAL QC SUMMARY REPORT

**TestCode: 8015GAS\_SRUBE**

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

Sample ID: <b>N045227-005BMSD</b>	SampType: <b>MSD</b>	TestCode: <b>8015GAS_SR</b>	Units: <b>mg/Kg</b>	RunNo: <b>152492</b>							
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>E21VS051</b>	TestNo: <b>EPA 8015B(M</b>		SeqNo: <b>4194058</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Chlorobenzene - d5	115.987		100.0		116	54	160			0	

Prep Date:  
Analysis Date: **5/4/2021**

**Qualifiers:**

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**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode:** 8082SOIL\_M\_PPM\_SCE

Sample ID: <b>LCS-87398</b>	SampType: <b>LCS</b>	TestCode: <b>8082SOIL_M_</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152527</b>
Client ID: <b>LCSS</b>	Batch ID: <b>87398</b>	TestNo: <b>EPA 8082</b>	EPA <b>3546</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195384</b>

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.00	0.1667	0	91.2	39	126				
Aroclor 1260	1.00	0.1667	0	95.8	45	122				
Surr: Decachlorobiphenyl	0.014	0.01667		84.8	29	116				
Surr: Tetrachloro-m-xylene	0.013	0.01667		79.8	25	118				

Sample ID: <b>MB-87398</b>	SampType: <b>MBLK</b>	TestCode: <b>8082SOIL_M_</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152527</b>
Client ID: <b>PBS</b>	Batch ID: <b>87398</b>	TestNo: <b>EPA 8082</b>	EPA <b>3546</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195385</b>

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.00									
Aroclor 1221	1.00									
Aroclor 1232	1.00									
Aroclor 1242	1.00									
Aroclor 1248	1.00									
Aroclor 1254	1.00									
Aroclor 1260	1.00									
Aroclor 1262	1.00									
Aroclor 1268	1.00									
Surr: Decachlorobiphenyl	0.014	0.01667		87.0	29	116				
Surr: Tetrachloro-m-xylene	0.014	0.01667		82.0	25	118				

Sample ID: <b>N045255-008A-MS</b>	SampType: <b>MS</b>	TestCode: <b>8082SOIL_M_</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152527</b>
Client ID: <b>ZZZZZ</b>	Batch ID: <b>87398</b>	TestNo: <b>EPA 8082</b>	EPA <b>3546</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195387</b>

Analyte	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.00	0.2005	0	88.9	38	130				
Aroclor 1260	1.00	0.2005	0	98.8	27	126				
Surr: Decachlorobiphenyl	0.017	0.02005		86.9	29	116				
Surr: Tetrachloro-m-xylene	0.014	0.02005		68.1	25	118				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out	Calculations are based on raw values			



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**ANALYTICAL QC SUMMARY REPORT**

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode:** 8082SOIL\_M\_PPM\_SCE

Sample ID: <b>N045255-008A-MSD</b>	SampType: <b>MSD</b>	TestCode: <b>8082SOIL_M_</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152527</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>87398</b>	TestNo: <b>EPA 8082</b>	EPA <b>3546</b>	Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195388</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.182	1.00	0.2011	0	90.5	38	130	0.1782	2.07	20	
Aroclor 1260	0.202	1.00	0.2011	0	100	27	126	0.1981	1.80	20	
Surr: Decachlorobiphenyl	0.019		0.02011		94.4	29	116		0		
Surr: Tetrachloro-m-xylene	0.013		0.02011		65.9	25	118		0		

**Qualifiers:**

B Analyte detected in the associated Method Blank  
 ND Not Detected at the Reporting Limit  
 DO Surrogate Diluted Out

E Value above quantitation range  
 R RPD outside accepted recovery limits  
 H Holding times for preparation or analysis exceeded  
 S Spike/Surrogate outside of limits due to matrix interference

Calculations are based on raw values

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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Rubicon Engineering Corporation

**Work Order:** N045255

**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode:** HC\_S\_RUBE

Sample ID: <b>MB-87397</b>	SampType: <b>MBLK</b>	TestCode: <b>HC_S_RUBE</b>	Units: <b>mg/Kg</b>	Prep Date: <b>5/5/2021</b>	RunNo: <b>152522</b>						
Client ID: <b>PBS</b>	Batch ID: <b>87397</b>	TestNo: <b>EPA 8015B(M EPA 3500B</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4195381</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

T/R Hydrocarbons: C13-C22

T/R Hydrocarbons: C23-C40

Surr: p-Terphenyl

10.0

ND

85.719

80.00

107

56

133

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
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# ANALYTICAL QC SUMMARY REPORT

**CLIENT:** Rubicon Engineering Corporation  
**Work Order:** N045255  
**Project:** Crater Sub Conduit, SAP# 902855563

**TestCode: PMOIST**

Sample ID: <b>MB-R152512</b>	SampType: <b>MBLK</b>	TestCode: <b>PMOIST</b>	Units: <b>wt%</b>	Prep Date:	RunNo: <b>152512</b>						
Client ID: <b>PBS</b>	Batch ID: <b>R152512</b>	TestNo: <b>D2216</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4194968</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	ND	0.1000									

Sample ID: <b>N045255-004ADUP</b>	SampType: <b>DUP</b>	TestCode: <b>PMOIST</b>	Units: <b>wt%</b>	Prep Date:	RunNo: <b>152512</b>						
Client ID: <b>ZZZZZZ</b>	Batch ID: <b>R152512</b>	TestNo: <b>D2216</b>		Analysis Date: <b>5/5/2021</b>	SeqNo: <b>4194973</b>						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	15.265	0.1000						14.81	3.05		30

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- E Value above quantitation range
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- S Spike/Surrogate outside of limits due to matrix interference



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 California: 11110 Arnesia Blvd, Ste. B • Carritos, CA 90703  
 P: 562.219.7435 F: 562.219.7436  
 www.assetlaboratories.com

<b>Client:</b> Rubicon Engineering Corp <b>Address:</b> 17031 Newport Ave, Ste 200, Irvine, CA <b>Address:</b> <b>Phone:</b> (714) 531-0081 <b>Fax:</b> (714) 531-0082 <b>Submitted By:</b> Josh Sandige <b>Title:</b>		<b>Report to:</b> Amy Mora Amy.r.mora@se.com <b>Company:</b> jsandige@voicenceng.com <b>Email:</b> <b>Address:</b> <b>Phone:</b> <b>Fax:</b>		<b>Bill to:</b> JDA TBD <b>Address:</b> <b>PO#:</b> <b>Phone:</b> <b>Fax:</b>		<b>QA/QC:</b> RTNE <input type="checkbox"/> Y <input type="checkbox"/> N RWOCB <input type="checkbox"/> Call Trans <input type="checkbox"/> Level III <input type="checkbox"/> LEVEL IV <input type="checkbox"/> Regulatory <input type="checkbox"/> Specify State:		<b>Stamp Receipt Condition:</b> 1. Chilled <input type="checkbox"/> 2. Heated <input type="checkbox"/> 3. Corrosive Inhibit <input type="checkbox"/> 4. Seal Present <input type="checkbox"/> 5. IR number <input type="checkbox"/> 6. Method of Cooling <input type="checkbox"/> Sample Temp: 5.6°C Container: _____ Tracking No. _____ Remarks: _____	
<b>Signature:</b> <i>Josh Sandige</i> <b>Date:</b> 5/1/21 <i>I hereby authorize Asset Laboratories to perform the tests indicated below.</i>		<b>Signature and Date:</b> <i>Josh Sandige</i> 5/1/21 <small>I affirm to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling this sample location, date or time of retention is considered fraud and may be grounds for legal action.</small>		<b>Analyses Requested:</b> Ground <input type="checkbox"/> Sediment <input type="checkbox"/> Probable <input type="checkbox"/> Soil <input checked="" type="checkbox"/> NPDES <input type="checkbox"/> Other Load <input checked="" type="checkbox"/> Surface <input type="checkbox"/>		<b>Matrix:</b> Turn Around Time (TAT) _____ No. of container _____ Container Type _____ PRESERVA ON _____		<b>EDD Requirement:</b> EXGAI EDD <input checked="" type="checkbox"/> Granular <input type="checkbox"/> Labycop <input type="checkbox"/> Others <input type="checkbox"/> Specify: _____ Global ID: _____	
<b>Project Name:</b> Under Sub Conduit <b>Project Number:</b> SAP4 902855563		<b>Sample ID/Location:</b> AC1 AC2 HA1-05 HA1-20 HA1-35 HA1-50 HA1-Camp S1		<b>Date:</b> 5/1 <b>Time:</b> 0700 0715 0725 0730 0735 0740 0800		<b>Matrix:</b> Asphalt Asphalt Soil ↓ ↓		<b>Special Instruction:</b> SC6 JDA# TBD Soil and asphalt PRESERVED FOR: 1.0 mg/kg Soil Composite Depth: 0.5, 2.0, 3.5, 5.0	
<b>Relinquished by (Signature and Printed Name):</b> <i>Josh Sandige</i> <b>Date / Time:</b> 5/1/21 9:53AM		<b>Received by (Signature and Printed Name):</b> <i>AL D-D A. Garcia</i> 5/1/21 9:53 AM		<b>Turn Around Time (TAT):</b> <input type="checkbox"/> A < 24 Hrs or Same Day TAT <input checked="" type="checkbox"/> B = Next Workday <input type="checkbox"/> C = 2 Workdays <input type="checkbox"/> D = 3 Workdays <input type="checkbox"/> E = Routine 5-7 Workdays TAT starts at 8AM the following day if sample received after 2:00 PM.		<b>Preservation:</b> H = HCl N = HNO3 S = H2SO4 C = 4°C Z = ZnAc2 O = NaOH T = Na2S2O4 Other/Specialty: _____ Container Type: T = Tube V = VOA J = Jar B = Tedlar G = Glass M = Metal P = Plastic C = Can			

1. All methods will be performed in accordance with the methods specified in the report.  
 2. Regular TAT is 5-7 business days, rush orders will be completed in 3-5 business days. Additional charges apply for rush orders.  
 3. Custom EDD formats will be an additional 3% of the total project price.  
 4. Add 50% surcharge for Level III Data Packages, 15% for Level IV Data Packages. Surcharges apply on total project price.  
 5. Trip Reports and Equipment Reports are available upon request.  
 6. Asset Laboratories is not responsible for samples collected and analyzed by other laboratories.  
 7. All reports are submitted in electronic format. Please inform Asset Laboratories if a hard copy of report is needed.  
 8. For subchronic analysis, AI and Surveys will vary. **TEMP 2.1°C**  
 White = Laboratory Copy

# ASSET Laboratories

Please review the checklist below. Any NO signifies non-compliance. Any non-compliance will be noted and must be understood as having an impact on the quality of the data. All tests will be performed as requested regardless of any compliance issues.

If you have any questions or further instruction, please contact our Project Coordinator at (702) 307-2659.

Cooler Received/Opened On: 5/4/2021 Workorder: N045255  
 Rep sample Temp (Deg C): 3.6 IR Gun ID: 1  
 Temp Blank:  Yes  No  
 Carrier name: Walk-In  
 Last 4 digits of Tracking No.: NA Packing Material Used: None  
 Cooling process:  Ice  Ice Pack  Dry Ice  Other  None

## Sample Receipt Checklist

- |   |   |                             |   |
|---|---|-----------------------------|---|
| 1. Shipping container/cooler in good condition?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| 2. Custody seals intact, signed, dated on shipping container/cooler?                    | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 3. Custody seals intact on sample bottles?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 4. Chain of custody present?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 5. Sampler's name present in COC?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 6. Chain of custody signed when relinquished and received?                              | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 7. Chain of custody agrees with sample labels?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 8. Samples in proper container/bottle?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 9. Sample containers intact?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 10. Sufficient sample volume for indicated test?  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 11. All samples received within holding time?   | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| 12. Temperature of rep sample or Temp Blank within acceptable limit?                    | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/>                     |
| 13. Water - VOA vials have zero headspace?  | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 14. Water - pH acceptable upon receipt?<br>Example: pH > 12 for (CN,S); pH<2 for Metals | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 15. Did the bottle labels indicate correct preservatives used?                          | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
| 16. Were there Non-Conformance issues at login?<br>Was Client notified?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |
|   | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/>          |

Comments: Received at Las Vegas Lab on 5/4/21 at 2.1 oC, IR #2, SW Cargo # 5766.

For:

Checklist Completed By: AG YRJ 5/5/2021

Reviewed By: MBC 5/5/2021

# ASSET Laboratories

## WORK ORDER Summary

05-May-21

WorkOrder: N045255

Client ID: RUBEN01

Project: Crater Sub Conduit, SAP# 902855563

QC Level: RTNE

Date Received: 5/4/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N045255-001A	AC1	5/4/2021 7:00:00 AM	5/5/2021	Asphalt	EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-001B			5/5/2021		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-002A	AC2	5/4/2021 7:15:00 AM	5/5/2021		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-002B			5/5/2021		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-003A	HA1-0.5	5/4/2021 7:25:00 AM	5/5/2021	Soil	EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-004A	HA1-2.0	5/4/2021 7:30:00 AM	5/5/2021		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-005A	HA1-3.5	5/4/2021 7:35:00 AM					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS

# ASSET Laboratories

## WORK ORDER Summary

05-May-21

WorkOrder: N045255

Client ID: RUBEN01

Project: Crater Sub Conduit, SAP# 902855563

QC Level: RTNE



Date Received: 5/4/2021

Comments:

Sample ID	Client Sample ID	Date Collected	Date Due	Matrix	Test No	Test Name	Hld	MS	Sub	Storage
N045255-006A	HAI-5-0	5/4/2021 7:40:00 AM		Soil			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-007A	HAI-COMP	5/4/2021	5/5/2021		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8015B(M)	HYDROCARBON CHAIN IDENTIFICATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 3550B	SHAKE-OUT METHOD: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-007B			5/5/2021		EPA 8015B(M)	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VS
N045255-008A	SI	5/4/2021 8:00:00 AM	5/5/2021		EPA 3050B	SOPREP TOTAL METALS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 3546	Microwave Extraction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 6010B	TOTAL METALS BY ICP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021			MERCURY PREP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 7471A	TOTAL MERCURY BY COLD VAPOR TECHNIQUE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8015B(M)	GASOLINE RANGE ORGANICS BY GC/FID	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8082	PCBs BY GC/ECD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 8015B(M)	HYDROCARBON CHAIN IDENTIFICATION	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		EPA 3550B	SHAKE-OUT METHOD: EXTRACTABLE FUELS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
			5/5/2021		D2216	PERCENT MOISTURE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WS
N045255-009A	FOLDER	5/5/2021	5/5/2021		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB
			5/5/2021		Folder	Folder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAB

526 | SNA | 60095766

526 - 60095766

Shipper's Name and Address ADVANCED TECHNOLOGY LABORATORIES 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-2659		Shipper's Account Number 74299 - 1		Not Negotiable / Issued by  52660095766 swacargo.com (800) 533-1222											
Consignee's Name and Address ADVANCED TECH LAB 3151 W POST RD LAS VEGAS, NV 89118 US +1 (702) 307-7435		Consignee's Account Number		Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.				It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage subject to Southwest Airlines' Contract of Carriage which is <a href="http://www.swacargo.com">www.swacargo.com</a> and any location where air waybills are available. Shipper's attention is drawn to the terms of the contract which includes, among other things; (1) Limits on Carriers' liability for loss, damage, or delay of goods, including fragile or perishable goods; (2) Claim restrictions, including time within which shippers or consignees must file a claim or bring an action against the carrier for its acts or omissions or those of its agents; (3) Right of the carrier to change the terms of the contract; (4) Rules about refusal to carry; and (5) Rights of the carrier and limitations, concerning delay or failure to perform service, including schedule changes, rerouting, substitution of an alternate carrier or aircraft, or means of carriage including road unless specific contrary instructions are given hereon by shipper, and shipper agrees the shipment may be carried via intermediate stopping places the carrier deems appropriate. Shipper may increase liability limits by declaring a higher value for carriage and paying a supplemental charge if required.							
Issuing Carrier's Agent Name and City		Accounting Information Billed on 05/04/2021 13:28 PDT SWA ACCOUNT 74299		Agent's IATA Code		Account No.		Airport of Departure (Addr. of First Carrier) and Requested Routing ORANGE COUNTY							
To By First Carrier LAS SOUTHWEST AIRLINES		To By To By		Currency USD		CHGS Code PP		WT.VAL PPD COLL X		Other PPD COLL X		Declared Value for Carriage NVD		Service Level - N Declared Value for Customs	
Airport of Destination LAS		Flight Date WN4821 / 04MAY		For Carrier Use Only Flight Date		Amount of Insurance		INSURANCE - If carrier offers insurance, and such insurance is requested in accordance with the conditions thereof, indicate amount to be insured in figures in box marked "Amount of Insurance".							
HANDLING INFORMATION -														SCI	
No. of Pieces RCP	Gross Weight	kg lb	Rate Class Commodity Item No.		Chargeable Weight	Rate / Charge	Total		Nature and Quantity of Goods (Inc. Dimensions or Volume)						
1	30	L	B 0000		30	As Agreed	*****		BIOLOGICAL SUBSTANCE, CATEGORY B - UN3373, SOIL SAMPLE DIMS IN INCHES: 1 = 17 X 10 X 16						
1	30	L	B 0000		30	As Agreed	*****		SHC: RDS						
Prepaid		Weight Charge		Collect		Other Charges and Description MYC 0.00 SCC 0.00									
Valuation Charge		Tax		Total Other Charges Due Agent		Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air according to the applicable Dangerous Goods Regulations. I consent that this shipment shall be subject to search by the Carrier.									
Total Other Charges Due Carrier		Total Prepaid		Total Collect		Signature of Shipper or his Agent JOEL ARCEO									
Currency Conversion Rates		CC Charges in Dest.Currency		05/04/2021 13:29 PDT		SNA		X245428							
Executed on (date and time)		Charges at Destination		Total Collect Charges		At (place)		Signature of Issuing Carrier or its Agent							
For Carriers Use only at Destination		Total Collect Charges		526 - 60095766											

ORIGINAL 2 (FOR CONSIGNEE)





# AGENT SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 27513

**Agent Billing Information**

Name: ROBERSON WAITE ELECTRIC (CASH ACCT 321)  
Address: 174 LIBERTY AVE  
City: ANAHEIM  
State: CA Zip: 92801  
Phone: 714.698.0903 Fax: \_\_\_\_\_  
Contact: ERIC ALFARO

**Republic Waste Location (Company)**

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO ROAD  
SYLMAR, CA 91342  
818.362.2141

**Project:** SCE CRATER SUBSTATION, AGOURA HILLS **County and State of Origin:** LOS ANGELES, CA  
**Generator Address:** 2444 WALNUT GROVE, ROSEMEAD  
Additional Information: CONTACT: JASON THOMAS 626.302.3105

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Agent agree to be legally bound hereby and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Agent.

2. **(A) Rates for Disposal:**

<u>Waste</u>	<u>Disposal Method</u>	<u>Disposal Rate:</u>	<u>Fees / Taxes / Misc.</u>	<u>Transportation</u>
<u>NON HAZ SOIL</u>	<u>LANDFILL</u>	<u>[REDACTED]</u>	<u>APPLY</u>	<u>N/A</u>
Additional Information: <u>PROFILE EXPIRES 05/21/2022   MATERIAL CODE VG-CONT SOIL   EAV 3 CUBIC YARDS</u>				
<u>[REDACTED]</u> A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL				

Agent shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 3 CU. YDS. Without Prior Approval of Company.

**(B) Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 05/24/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

**THE COMPANY AND THE AGENT, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.**

**AGENT**

Eric Alfaro  
SIGNATURE (AUTHORIZED REPRESENTATIVE)

Eric Alfaro Civil Superintendent  
NAME AND TITLE (PLEASE PRINT)

5/26/2021  
DATE

**REPUBLIC SERVICES/COMPANY**

\_\_\_\_\_  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
EDWARD ANTOLIN, MESE

\_\_\_\_\_  
NAME AND TITLE (PLEASE PRINT)

5/26/21  
DATE

# Terms and Conditions of Agent Special Waste Service Agreement

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
5. **Waste Accepted at Facility.** Agent represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Agent shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Acceptable Waste to Company, Agent has provided an Application for such Special Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Agent.
7. **Rights of Refusal/Rejection.** The Agent shall inspect all Special Waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) the Agent has breached (or is breaching) its representations, warranties, covenants or agreements hereunder, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. The Company shall have the right to inspect all vehicles of waste haulers, including the Agent's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Agent of its responsibilities or liability under this Agreement.
8. **Limited License to Enter.** This Agreement provides Agent with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Agent's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Agent's personnel shall promptly leave the Facility. Under no circumstances shall Agent or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Agent agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Agent's personnel whom Company believes is under the influence of alcohol or other chemical substances. Agent shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
9. **Charges and Payment.** Payment shall be made by Agent within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Agent agrees to pay a finance charge equal to the maximum interest rate permitted by law. Agent shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Agent. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier. Agent hereby agrees that the Company's right to receive payments under this Agreement is unconditional and is not conditioned upon Agent first receiving payment from Generator or any other party.
10. **Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Agent's failure to timely pay any amounts due under this Agreement to Company; (b) Agent's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Agent. Agent shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Agent's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Agent.
11. **Driver's Knowledge and Authority.** Agent represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Agent of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility, of Company's restrictions on deliveries of Special Waste to the Facility of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
12. **Indemnification.** Agent shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Agent or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Agent to promptly remove the Unacceptable Waste at Agent's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
13. **Insurance.** Agent shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (where Agent hauling)	\$1,000,000 combined single limit

specifically covering Agent's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insured under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Agent from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Agent's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Agent's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. **Assignment.** Agent may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. **Continuing Compliance.** The Agent has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Agent and/or Generator which may affect the acceptability of the waste by the Company. Further, the Agent shall comply with all Company requests for evidence of Agent's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the Special Waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Agent's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**
  - (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
  - (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
  - (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
  - (D) Agent shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Agent or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
  - (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
  - (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Agent which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
  - (G) Agent represents, warrants and covenants that it is and during the term of this Agreement, will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
  - (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Agent. It is the further understanding and agreement of the parties that Agent is an authorized representative of Generator.
  - (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

19. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Agent at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

20. **Liquidated Damages.** If Agent terminates this Agreement before its expiration other than as a result of a breach by Company, Agent shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Agent acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Agent shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Agent delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage

AGENT: \_\_\_\_\_

REPUBLIC SERVICES/COMPANY: \_\_\_\_\_

December 2018



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 51232128158	Expiration Date 6/4/2022	
<b>I. Decision Request:</b>	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: Global Farms			
Generator Site Address: 633 SOUTH MISSION ROAD			
City: LOS ANGELES	County:	State: CA	Zip:
Name of Waste: ORGANIC GINGER ROOT			
Estimated Annual Volume: 18,000 Pounds			

### II. Special Waste Department Decision:      Approved    Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Deep Well     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: Holly M. Wilson  
Date: 6/8/2021

Name (Printed): Holly Wilson

### III. Facility Decision:      Approved    Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_  
Date: 6/8/2021

Name (Printed): Chris C...

# Special Waste Profile



Disposal Facility: 5123 Sunshine Canyon Landfill CA

Waste Profile #: 51232128158

Sales Rep #:

## I. Generator Information

Generator Name: Global Farms *KF 618112*

Generator Site Address: 633 south mission road

City: LA County: LA State: California Zip: 90023

State ID/Reg No: State Approval/Waste Code: NAICS #:

Generator Mailing Address  (if different)

City: County: State: --Select State-- Zip:

Generator Contact Name: Kian Fattahi Email: kian@global-farms.com

Phone Number: 3234156000 Ext: Fax Number: 3234156004

## II. Billing Information

Bill To: Global Farms Contact Name: Zia Fattahi

Billing Address: 633 south mission road Email: info@global-farms.com

City: LA State: California Zip: 90023 Phone: 3234156000

## III. Waste Stream Information

Name of Waste: Organic Ginger Root

Process Generating Waste: whole ginger root was used for supplying grocery stores and foodservice distributors.

The ginger root has a pest that LA county Ag has required us to destroy *KF 6/18/21*

Type of Waste: Industrial Process Waste Physical State: Solid Method of Shipment: Other

Estimated Volume: 18000 Volume Type: Pounds

Frequency: One-time Event (single project) Disposal Consideration: Landfill

## IV. Representative Sample Certification

No Sample Taken

Sample Taken Type of Sample --Select Sample Type--

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No

Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

1.
2.
3.
4.
5.

% By Weight (out of 100% - ranges acceptable):

- |      |
|------|
| 100% |
|      |
|      |
|      |
|      |

Color:     Odor (describe):     Does Waste Contain Free Liquids?  Yes  No    % Solids:     pH:     Flash Point:  °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## RCRA Regulatory Questions

1. Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
2. Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
3. Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
4. Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
5. Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
6. Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?  Yes  No
7. Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
8. Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
9. Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
10. Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.  Yes  No

## Republic Services Waste Handling Questions

1. Does this waste generate heat or react when contacted with water/moisture?  Yes  No
2. Does the waste contain sulfur or sulfur by-products?  Yes  No
3. Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- 4b. If yes to the above question, please provide clarification.

## VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Kian Fattahi

operations

Global Farms

Authorized Representative Name  
(Printed)

Title  
(Printed)

Company Name



Representative Signature

6/4/21

Date



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## FAX

### INCOMPLETE FILE TRANSMITTAL

TO: Samantha Vega

LOG NO.: 51232128158

FAX:

File Received: 6/4/2021

From: Special Waste Dept.

Response Date: 6/4/2021

Re: KIAN FATTAHI / ORGANIC GINGER ROOT

SECTION I	SECTION II	SECTION III	SECTION IV	SECTION V	SECTION VI
<input type="checkbox"/> DisposalFacility	<input type="checkbox"/> TransporterName	<input type="checkbox"/> NameOfWaste	<input type="checkbox"/> USEPA	<input type="checkbox"/> CharacteristicComponents	<input type="checkbox"/> GenAuthSignature
<input checked="" type="checkbox"/> GeneratorName	<input type="checkbox"/> TransporterSiteAddress	<input checked="" type="checkbox"/> ProcessGeneratingWaste	<input type="checkbox"/> SampleDate	<input type="checkbox"/> FreeLiquids	<input type="checkbox"/> GenCoName
<input type="checkbox"/> GeneratorSiteAddress	<input type="checkbox"/> TransporterCityStateZip	<input type="checkbox"/> TypeOfWaste	<input type="checkbox"/> CompositeGrab	<input type="checkbox"/> YesNo	<input type="checkbox"/> NoStateLetter
<input type="checkbox"/> GeneratorCityStateZip	<input type="checkbox"/> TransporterMailingAddress	<input type="checkbox"/> PhysicalState	<input type="checkbox"/> SampleID	<input type="checkbox"/> pH_Flash	<input type="checkbox"/> Name_Title
<input type="checkbox"/> GeneratorMailingAddress	<input type="checkbox"/> TransporterContactName	<input type="checkbox"/> MethodOfShipment			<input type="checkbox"/> SignatureDate
<input type="checkbox"/> GeneratorContactName	<input type="checkbox"/> TransporterTelFAX	<input type="checkbox"/> EstimatedAnnualVolume			
<input type="checkbox"/> GeneratorTelFAX		<input type="checkbox"/> Frequency			
<input type="checkbox"/> GeneratorStateID		<input type="checkbox"/> DisposalConsideration			
<input type="checkbox"/> WasteCodeTexas					

ANALYTICALS	TCLP TOTAL METALS	TCLP VOLATILES	TCLP SEMI-VOLATILES	PESTICIDES / HERBICIDE	
<input type="checkbox"/> TotalCyanide	<input type="checkbox"/> Arsenic	<input type="checkbox"/> Benzene	<input type="checkbox"/> Cresols	<input type="checkbox"/> Chlordane	<input type="checkbox"/> LabLetterhead
<input type="checkbox"/> ReactiveCyanide	<input type="checkbox"/> Barium	<input type="checkbox"/> CarbonTetrachloride	<input type="checkbox"/> DichlorobenzeneOne	<input type="checkbox"/> Endrin	<input type="checkbox"/> ChainOfCustody
<input type="checkbox"/> TotalSulfide	<input type="checkbox"/> Cadmium	<input type="checkbox"/> Chlorobenzene	<input type="checkbox"/> DinitrotolueneTwo	<input type="checkbox"/> Heptachlor	<input type="checkbox"/> NoLabSignature
<input type="checkbox"/> ReactiveSulfide	<input type="checkbox"/> Chromium	<input type="checkbox"/> Chloroform	<input type="checkbox"/> Hexachlorobenzene	<input type="checkbox"/> HeptachlorEpoxide	<input type="checkbox"/> ReportOneYearOldPlus
<input type="checkbox"/> TotalPCB	<input type="checkbox"/> Copper	<input type="checkbox"/> DichloroethaneOne	<input type="checkbox"/> Nitrobenzene	<input type="checkbox"/> Lindane	<input type="checkbox"/> NoThirdPartyLab
<input type="checkbox"/> TOX_EOX	<input type="checkbox"/> Lead	<input type="checkbox"/> DichloroethyleneTwo	<input type="checkbox"/> Pentachlorophenol	<input type="checkbox"/> Methoxychlor	<input type="checkbox"/> MissingReportPages
<input type="checkbox"/> Phenols	<input type="checkbox"/> Mercury	<input type="checkbox"/> MethylEthylKetone	<input type="checkbox"/> Pyridine	<input type="checkbox"/> Toxaphene	<input type="checkbox"/> MissingMSDSPages
<input type="checkbox"/> FlashPoint	<input type="checkbox"/> Selenium	<input type="checkbox"/> Tetrachloroethylene	<input type="checkbox"/> TrichlorophenolFive	<input type="checkbox"/> TwoFourD	<input type="checkbox"/> TotalSulfates
<input type="checkbox"/> pH	<input type="checkbox"/> Silver	<input type="checkbox"/> Trichlorethylene	<input type="checkbox"/> TrichlorophenolSix	<input type="checkbox"/> TwoFourFiveTP	<input type="checkbox"/> TotalSulfur
<input type="checkbox"/> PaintFilter	<input type="checkbox"/> Zinc	<input type="checkbox"/> VinylChloride			<input type="checkbox"/> WrongProfile
<input type="checkbox"/> TPH					
<input type="checkbox"/> BTEX					<input checked="" type="checkbox"/> GeneratorIncomplete

**Notes:**

1. Please have the generator clarify who the generator is. Is it Kian Fattahi or Global Farms? Kian Fattahi is listed in Section I but Global Farms is in Section VI.
2. Please have the generator indicate the reason for the disposal of the gingerroot in the process description of Section III.

ALL CHANGES MUST BE INITIALED AND DATED BY THE GENERATOR. DATES MUST INCLUDE THE MONTH, DAY AND YEAR.  
Suzie

# Special Waste Profile



Disposal Facility:  Waste Profile #:   
Sales Rep #:

## I. Generator Information

Generator Name:   
Generator Site Address:   
City:  County:  State:  Zip:   
State ID/Reg No:  State Approval/Waste Code:  NAICS #:   
Generator Mailing Address  (if different)   
City:  County:  State:  Zip:   
Generator Contact Name:  Email:   
Phone Number:  Ext:  Fax Number:

## II. Billing Information

Bill To:  Contact Name:   
Billing Address:  Email:   
City:  State:  Zip:  Phone:

## III. Waste Stream Information

Name of Waste:   
Process Generating Waste:   
  
Type of Waste:  Physical State:  Method of Shipment:   
Estimated Volume:  Volume Type:   
Frequency:  Disposal Consideration:

## IV. Representative Sample Certification

No Sample Taken

Sample Taken Type of Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No

Sample Date:  Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.



## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1.	ginger has insects in the material	100%
2.		
3.		
4.		
5.		

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.**

## RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?  Yes  No
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.  Yes  No

## Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture?  Yes  No
- Does the waste contain sulfur or sulfur by-products?  Yes  No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- If yes to the above question, please provide clarification.

## VI. Certification

*I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.*

*I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.*

*I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.*

Kian Fattahi

Authorized Representative Name  
(Printed)

operations

Title  
(Printed)

Global Farms

Company Name



Representative Signature

6/4/21

Date

# Special Waste Profile



Disposal Facility:  Waste Profile #:   
Sales Rep #:

## I. Generator Information

Generator Name:   
Generator Site Address:   
City:  County:  State:  Zip:   
State ID/Reg No:  State Approval/Waste Code:  NAICS #:   
Generator Mailing Address  (if different)   
City:  County:  State:  Zip:   
Generator Contact Name:  Email:   
Phone Number:  Ext:  Fax Number:

## II. Billing Information

Bill To:  Contact Name:   
Billing Address:  Email:   
City:  State:  Zip:  Phone:

## III. Waste Stream Information

Name of Waste:   
Process Generating Waste:   
Type of Waste:  Physical State:  Method of Shipment:   
Estimated Volume:  Volume Type:   
Frequency:  Disposal Consideration:

## IV. Representative Sample Certification

No Sample Taken

Sample Taken Type of Sample

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No

Sample Date:  Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1. ginger has insects in the material	100%
2.	
3.	
4.	
5.	

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.**

## RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.

## Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture?  Yes  No
- Does the waste contain sulfur or sulfur by-products?  Yes  No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- If yes to the above question, please provide clarification.

## VI. Certification

*I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.*

*I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.*

*I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.*

Kian Fattahi

Authorized Representative Name  
(Printed)

operations

Title  
(Printed)

Global Farms

Company Name



Representative Signature

6/4/21

Date



# SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 28158

### Generator Billing Information

Name: GLOBAL FARMS (ACCT 321 CASH)  
Address: 633 S MISSION RD  
City: LOS ANGELES  
State: CA Zip: 90023  
Phone: 323.415.6000 Fax: \_\_\_\_\_  
Contact: ZIA FATTAHI

### Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO RD  
SYLMAR, CA 91342  
818.362.2141

Project: FOOD PRODUCTS—GINGER ROOT County and State of Origin: LOS ANGELES, CA  
Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal:**

<u>Waste</u>	<u>Disposal Method</u>	<u>Disposal Rate:</u>	<u>Fees / Taxes / Misc.</u>	<u>Transportation</u>
<u>FOOD PRODUCTS</u>	<u>LANDFILL</u>	[REDACTED]	[REDACTED]	<u>N/A</u>
<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	[REDACTED]	[REDACTED]

Additional Information: CANYON LANDFILL

PROFILE EXPIRES 06/04/2022 | MATERIAL CODE XD-FOOD WASTE | EAV 18000 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 18000 POUNDS Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

- 1)N/A
- 2)N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 06/08/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

GENERATOR

SIGNATURE (AUTHORIZED REPRESENTATIVE)

Kian Fattah: Operations Manager  
NAME AND TITLE (PLEASE PRINT)

DATE

6/8/21

REPUBLIC SERVICES/COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

NAME AND TITLE (PLEASE PRINT)

DATE

# Terms and Conditions of Special Waste Service Agreement

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).
7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.
8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.
10. **Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.
11. **Driver's Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
12. **Indemnification.** Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	\$1,000,000 combined single limit

General Liability (including the Umbrella/Excess policy) must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not be given to Company. With the exception of workers' compensation, Company shall be shown as additional insured under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. **Assignment.** Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, under the Agreement to a subsidiary or affiliate corporation.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous.**

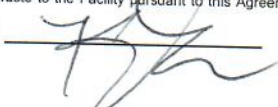
- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
- (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
- (G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
- (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial

GENERATOR:



REPUBLIC SERVICES/COMPANY:

December 2018



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 51232128273		Expiration Date 6/8/2024	
I. Decision Request: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change			
Disposal Facility: 5123 - Sunshine Canyon Landfill			
Generator Name: LOS ANGELES COUNTY SHERIFF'S DEPARTMENT			
Generator Site Address: 14021 E TELEGRAPH RD			
City: WHITTIER	County:	State: CA	Zip:
Name of Waste: MARIJUANA			
Estimated Annual Volume: 35,000 Pounds			

II. Special Waste Department Decision:  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Deep Well  Transfer Facility


Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature:   
Date: 6/8/2021


Name (Printed): KEITH DIAMANTI

III. Facility Decision:  Approved  Rejected

### Precautions, Conditions or Limitations on Approval

\_\_\_\_\_

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:   
Date: 6/8/2021

Name (Printed) Chris Coyle



# Special Waste Profile



Disposal Facility: 5123 Sunshine Canyon Landfill CA Waste Profile #: 5123 21 28273  
Sales Rep #:

## I. Generator Information

Generator Name: Los Angeles County Sheriff's Department  
Generator Site Address: 14021 East Telegraph Road  
City: Whittier County: Los Angeles State: California  Zip: 90604  
State ID/Reg No: CAL000122920 State Approval/Waste Code: NAICS #:   
Generator Mailing Address  (if different)   
City: Los Angeles County: Los Angeles State: California Zip: 90012  
Generator Contact Name: Sgt. Natasha Butler Email: nkbutler@lasd.org  
Phone Number: 562-347-4547 Ext: Fax Number: none

## II. Billing Information

Bill To: Los Angeles County Sheriff's Department - CPE Contact Name: Sgt. Natasha Butler  
Billing Address: 14201 E. Telegraph Rd. Email: nkbutler@lasd.org  
City: Whittier State: California Zip: 90604 Phone: 562-347-4574

## III. Waste Stream Information

Name of Waste: Marijuana  
Process Generating Waste: The burial of marijuana from multiple Sheriff's Station locations and search warrant seizures.  
Type of Waste: Industrial Process Waste Physical State: Semi-Solid Method of Shipment: Bulk  
Estimated Volume: Approximately 35,000 Volume Type: Pounds  
Frequency: On-going Waste Stream Disposal Consideration: Landfill

## IV. Representative Sample Certification

No Sample Taken  
 Sample Taken Type of Sample --Select Sample Type--  
Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No  
Sample Date: Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

# Special Waste Profile



## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1. Marijuana	90%
2. Cardboard	5%
3. Plastic	5%
4.	
5.	

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.

## Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture?  Yes  No
- Does the waste contain sulfur or sulfur by-products?  Yes  No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- 4b. If yes to the above question, please provide clarification.

# Special Waste Profile



## VI. Certification

I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.

I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.

I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.

Brian Gellis	Lieutenant	Los Angeles County Sheriff's Department
Authorized Representative Name (Printed)	Title (Printed)	Company Name
	6/8/2021	Date
Representative Signature		



# SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 28273

### Generator Billing Information

Name: LOS ANGELES COUNTY SHERIFF'S DEPT CPE  
(ACCT 333444)  
Address: 14201 E TELEGRAPH RD  
City: WHITTIER  
State: CA Zip: 90604  
Phone: 562.347.4574 Fax: \_\_\_\_\_  
Contact: NATASHA BUTLER

### Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO RD  
SYLMAR, CA 91342  
818.362.2141

Project: SIEZED MARIJUANA County and State of Origin: LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal:**

<u>Waste</u>	<u>Disposal Method</u>	<u>Disposal Rate:</u>	<u>Fees / Taxes / Misc.</u>	<u>Transportation</u>
MARIJUANA/OFF SPEC	LANDFILL	[REDACTED]	[REDACTED]	N/A
N/A	N/A	N/A	N/A	N/A

Additional Information: A COMPLETED SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

PROFILE EXPIRES 06/08/2024 | MATERIAL CODE VQ-OFF SPEC | EAV 35,000 POUNDS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 35,000 POUNDS Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 06/11/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

### GENERATOR

[Signature]  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
BRAND D. GELUS, LIEUTENANT  
NAME AND TITLE (PLEASE PRINT) 6/30/21  
DATE

### REPUBLIC SERVICES/COMPANY

[Signature]  
SIGNATURE (AUTHORIZED REPRESENTATIVE)  
EDWARD ANTOLIN, MESE  
NAME AND TITLE (PLEASE PRINT)  
6/30/2021  
DATE

# Terms and Conditions of Special Waste Service Agreement

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).
7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.
8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.
10. **Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.
11. **Driver's Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
12. **Indemnification.** Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	\$1,000,000 combined single limit

General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insured under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.

15. **Assignment.** Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.

16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.

17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.

18. **Miscellaneous:**

- (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
- (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
- (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
- (D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
- (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
- (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
- (G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
- (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
- (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.

20. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.

21. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial

GENERATOR: Brian DeGruis  
 Lt. 202 6/30/11

REPUBLIC SERVICES/COMPANY: \_\_\_\_\_

December 2018



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51232128426

Expiration Date  
6/10/2022

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: TATE & LYLE PLC

Generator Site Address: 701 NEW DOCK ST B214 T.I.

City: TERMINAL ISLAND

County:

State: CA

Zip:

Name of Waste: POLYDEXTROSE

Estimated Annual Volume: 21 Tons

### II. Special Waste Department Decision:

Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Deep Well     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

Approved by Special Waste Review Committee?     Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

Dusty/Powdery waste must be shipped in a manner that minimizes fugitive emissions.  
Proper PPE must be worn when handling this material.

CAUTION! Avoid high concentrations of dust in air and accumulation of dust on equipment. Dusts may form explosive mixtures with air.

Special Waste Analyst Signature: Holly M. Wilson

Name (Printed): Holly Wilson

Date: 6/10/2021

### III. Facility Decision:

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Name (Printed): CHRIS COYLE

Date: 6/10/2021

# Special Waste Profile



Disposal Facility:  Waste Profile #:   
Sales Rep #:

## I. Generator Information

Generator Name:   
Generator Site Address:   
City:  County:  State:  Zip:   
State ID/Reg No:  State Approval/Waste Code:  NAICS #:   
Generator Mailing Address  (if different)   
City:  County:  State:  Zip:   
Generator Contact Name:  Email:   
Phone Number:  Ext:  Fax Number:

## II. Billing Information

Bill To:  Contact Name:   
Billing Address:  Email:   
City:  State:  Zip:  Phone:

## III. Waste Stream Information

Name of Waste:   
Process Generating Waste:   
Type of Waste:  Physical State:  Method of Shipment:   
Estimated Volume:  Volume Type:   
Frequency:  Disposal Consideration:

## IV. Representative Sample Certification

No Sample Taken  
 Sample Taken Type of Sample   
Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No  
Sample Date:  Sample ID Numbers or SDS:

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1. polydextrose	100
2.	
3.	
4.	
5.	

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

**Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.**

### RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.

### Republic Services Waste Handling Questions

- Does this waste generate heat or react when contacted with water/moisture?  Yes  No
- Does the waste contain sulfur or sulfur by-products?  Yes  No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- 4b. If yes to the above question, please provide clarification.



# Special Waste Profile



## VI. Certification

*I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste.*

*I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue.*

*I understand that attaching an electronic signature, I am signing this document, consent to complete this transaction and receive all related communication electronically, and agree this document will be binding as though I had physically signed it. A printout of this document may be accepted with the same authority as the original.*

*If electronic signature is preferred, please submit completed (unsigned) form to your Special Waste Coordinator or Special Waste Sales Executive to initiate signature process.*

*I further certify that the company has not altered the form or content of this profile sheet as provided by Republic Services.*

Keith Purcell

Authorized Representative Name  
(Printed)

ENVIRONMENTAL COOR

Title  
(Printed)

Tate & Lyle PLC

Company Name

*Keith Purcell*

Representative Signature

6/10/21

Date

## Safety Data Sheet

### STA-LITE® III

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 PRODUCT IDENTIFIER

- Chemical name Polydextrose  
- CAS number 68424-04-4

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE AND USES ADVISED AGAINST  
Dry food ingredient.

##### 1.3 DETAILS OF THE SUPPLIER

- Company identification Americas:  
Tate & Lyle Ingredients Americas LLC.  
2200 E. Eldorado Street  
Decatur, IL 62521

Europe:  
Tate & Lyle Slovakia s.r.o.  
Boleraz 114  
919 08 bolezaz  
Slovakia

Asia-Pacific:  
Tate & Lyle  
3 Biopolis Drive, #05-11 Synapse  
Singapore 138623

##### 1.4 EMERGENCY PHONE NR.

CHEMTREC  
Toll-Free: 1-800-424-9300 (USA and Canada)  
Non Toll-Free +1-703-527-3887 (Global)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According with the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC [CLP]: Not classified

##### 2.2. LABEL ELEMENTS

SIGNAL WORD:

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## Safety Data Sheet

### STA-LITE® III

Not applicable

#### HAZARD STATEMENTS:

Not applicable

#### SYMBOL:

Not applicable

#### PRECAUTIONARY STATEMENTS:

Not applicable

#### 2.3. OTHER HAZARDS

##### FIRE AND EXPLOSION HAZARD:

May form combustible dust concentrations in air. Possibility of dust explosion. It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Keep away from all ignition sources including heat, sparks and flame.

##### POTENTIAL ACUTE HEALTH EFFECTS FROM OCCUPATIONAL EXPOSURE:

Inhalation: Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.

Skin contact: Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers.

No health effects known or anticipated.

Eye contact: May cause slight mechanical irritation from acute exposure.

Ingestion: No effects known or anticipated.

## SECTION 3 : COMPOSITION / INFORMATION OF INGREDIENTS

- Chemical name Polydextrose  
- CAS number 68424-04-4

## SECTION 4 : FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

- General advice Seek medical attention if irritation develops after first aid application  
- Inhalation Move people from the exposure to fresh air.  
- Skin contact Wash skin with soap and water.  
- Eye contact Remove particulates by irrigating with eye wash solution or

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## Safety Data Sheet

### STA-LITE® III

- Ingestion clean water, holding eyelids apart.  
Wash mouth and flush throat upto the stomach.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED  
None Anticipated

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED.  
None Anticipated

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

Water spray, dry powder, carbon dioxide or media appropriate for surrounding fire. Use of water jet may cause explosive dust conditions.

### 5.2 SPECIFIC HAZARDS

FIRE AND EXPLOSION HAZARD: Possibility of dust explosion. It is recommended that all dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions. Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Use of water jet may cause explosive dust conditions. SEE NFPA 61, Standard for the prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 or later Edition, and other related standards.

### 5.3 SPECIFIC PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Wear self-contained breathing apparatus and full protective gear. Use water spray to cool fire exposed containers.

### FLAMMABILITY CLASS (OSHA)

Not applicable

### HAZARDOUS COMBUSTION PRODUCTS

Carbon dioxide and carbon monoxide

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS

None under normal conditions. Avoid prolonged inhalation of dust.

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## *Safety Data Sheet*

### **STA-LITE® III**

#### 6.2 ENVIRONMENTAL PRECAUTIONS

Prevent further leakage or spillage if safe to do so. No special environmental precautions required

#### 6.3 METHODS FOR CLEANING UP

Vacuum or sweep spills. Minimize dust generation.

If washing down spilled area is necessary, use copious amounts of water and control runoff.

Follow local, state and federal regulations for product disposal

#### 6.4 REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment

See Section 13 for disposal information

## **SECTION 7: HANDLING AND STORAGE**

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards. Use with adequate ventilation. Minimize dust generation and accumulation; dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are disturbed.

All dust control equipment and material transport systems involved are engineered to prevent conditions contributing to dust explosions and may require explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Bonding and grounding systems may be required.

Dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) should be designed to limit or prevent leakage of dust into the work area.

Do not allow dust to accumulate on flat surfaces, on rafters or building structural components. Routine housekeeping should be instituted to reduce dust accumulation. Use Avoid dispersal of dust in the air; use vacuum or wet sweeping methods. Do not use compressed air to clean surfaces.

Keep away from all ignition sources including heat, sparks, and flame. Where dust accumulations occur use non-sparking tools.

#### 7.2 CONDITIONS OF SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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## Safety Data Sheet

### STA-LITE® III

Store in a cool dry place. Store in a tightly closed container/bag.  
The packaging material should have reasonable moisture and air barriers and comply with food regulations.

#### 7.3 SPECIFIC END USE(S)

Not applicable

## SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

Exposure limits: Nuisance dust (also called particulate not otherwise regulated (PNOR)).

OSHA PEL: 15 mg/m<sup>3</sup> Total dust

5 mg/m<sup>3</sup> Respirable dust

ACGIH TLV: 10 mg/m<sup>3</sup> Inhalable dust

5 mg/m<sup>3</sup> Respirable dust

15 mg/m<sup>3</sup> Total dust

### 8.2 EXPOSURE CONTROLS

#### APPROPRIATE ENGINEERING CONTROLS:

Ventilation: See NFPA 61, Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and National Fire Protection Association 650, Standard for Pneumatic Conveying Systems for Handling Combustible Materials, 1997 Edition and other related standards. Normal industrial hygiene measures should be sufficient for protection of employees from exposure to dusts. Local and mechanical exhaust is desirable when dumping bags.

#### APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT:

Eye protection: Safety glasses are recommended. Safety goggles are desirable when dumping bags.

Emergency wash facilities: Eye wash is recommended for conditions where dust generation is likely.

Special protective clothing: Not normally required.

Gloves: Not normally required. Use ordinary work gloves if dust dries skin.

Respirator: NIOSH approved N-95 dust respirator if working in situations that could generate large amounts of airborne dust.

#### FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

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## Safety Data Sheet

### STA-LITE® III

See section 5.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- Physical form	Powder
- Color	White to light tan
- Odor	Odorless
- pH (concentration)	Data on specification sheet if available.
- Boiling point	No data
- Flash point	No data
- Melting/freezing point	No data
- Decomposition temperature	No data
- Auto-ignition temperature	No data
- Explosion properties	No data
- Oxidising properties	No data
- Vapour pressure	No data
- Vapor density	No data
- Relative density	No data
- Bulk density	No data
- Specific gravity	No data
- Viscosity	No data
- Water solubility	Soluble
- Solubility (non aqueous)	No data
- Partition coefficient	No data
- Dissociation constant	No data
- Evaporation rate	No data

### 9.2 OTHER INFORMATION

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY

Stable

### 10.2 CHEMICAL STABILITY

Stable under normal conditions.

Polymerization will not occur.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

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## Safety Data Sheet

### STA-LITE® III

Not applicable

#### 10.4 CONDITIONS TO AVOID

Practices which produce dust or disperse finely divided dust in air.  
See NFPA 61. Standard for the Prevention of Fire and Dust Explosions in Agricultural and Food Processing Facilities, 2008 Edition, and other related standards.

#### 10.5 INCOMPATIBLE MATERIALS

Oxidizing agents, strong acids

#### 10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Nothing unusual

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

- Inhalation Exposure to high airborne concentrations may cause mild respiratory irritation due to drying effects of dust.
- Ingestion No effects known or anticipated.
- Skin irritation / corrosion Sustained exposure in a dusty manufacturing environment may result in mechanical irritation in the creases of the skin, particularly at the fingers, or other drying effects. No health effects known or anticipated.
- Eye irritation May cause slight mechanical irritation from acute exposure.
- Skin sensitisation Not sensitizing
- Chronic toxicity Not known or anticipated
- Genetic toxicity Not known or anticipated
- Carcinogenicity Not classifiable as Carcinogen.
- Reprotoxicity Not known or anticipated
- Specific effects Not applicable

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 TOXICITY

This product and its breakdown products are not known to be toxic to plant and animal life.

### 12.2 PERSISTENCE/DEGRADABILITY

Readily biodegradable

### 12.3 BIOACCUMULATIVE POTENTIAL

This product and its breakdown products are not fat-soluble, and do not accumulate in plant or

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## Safety Data Sheet

### STA-LITE® III

animal tissue.

#### 12.4 MOBILITY IN SOIL

Not applicable

#### 12.5 BPT, vPvB

The substance does not meet the criteria for PBT or vPvB.

#### 12.6 OTHER ADVERSE EFFECTS

None known

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 WASTE TREATMENT METHODS

Follow local, state and federal regulations for product disposal. Not a hazardous waste unless contaminated with hazardous products.

## SECTION 14: TRANSPORTATION INFORMATION

International regulations (RID/ADR; RTMDR; IMDG; IATA/OACI): Not classified as dangerous for transport.

DOT shipping label: Non-hazardous

## SECTION 15: REGULATORY INFORMATION

### 15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS

According with the version of the Globally Harmonized System of Classification and labeling adopted in the United States and Regulation 1272/2008/EC(CLP): Not classified

### 15.2 CHEMICAL SAFETY ASSESSMENT

#### US FEDERAL REGULATIONS:

Clean Air Act:

ODS: Not applicable.

TSCA Status: Not applicable.

SARA (EPCRA) Section 313 (40 C.F.R. § 372.65): Not applicable.

#### STATE REPORTING REQUIREMENTS:

California Proposition 65: Not applicable.

## SECTION 16: OTHER INFORMATION

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## *Safety Data Sheet*

### **STA-LITE® III**

See Hazard Communication Guidance for Combustible Dusts, OSHA 3371-08 2009, U.S. Occupational Safety and Health Administration, <https://www.osha.gov/Publications/3371combustible-dust.html> (accessed 10/8/14)

NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for general safe handling and design guidance.

Safety Data Sheet according to Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### DISCLAIMER OF LIABILITY

The information in this SDS is collected from reliable sources. However, the information is provided without any warranty, expressed or implied. The conditions or methods of handling, storage, use or disposal of the product might be beyond our control and knowledge. For the avoidance of doubt, we shall in no such circumstances be under any liability in respect of loss, damage or expenses arising from handling, storage, use or disposal of the product by your company and/or your subcontractors. This SDS is only applicable for the product mentioned in the identification chapter and title. If the product is used as a component in another product, this SDS may not be applicable on the composite material.

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# SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 28426

### Generator Billing Information

Name: TATE & LYLE PLC (ACCT 321 CASH)  
Address: 2200 E EL DORADO ST  
City: DECATUR  
State: IL Zip: 62521  
Phone: 217.329.4555 Fax: \_\_\_\_\_  
Contact: MICHELLE HUTTES

### Republic Waste Location (Company)

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO RD  
SYLMAR, CA 91342  
818.362.2141

**Project:** POLYDEXTROSE **County and State of Origin:** LOS ANGELES, CA

Additional Information: SITE: 701 NEW DOCK ST B214 T1

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. **(A) Rates for Disposal:**

<u>Waste</u>	<u>Disposal Method</u>	<u>Disposal Rate:</u>	<u>Fees / Taxes / Misc.</u>	<u>Transportation</u>
POLYDEXTROSE/OFF SPEC	LANDFILL			N/A
N/A	N/A	N/A	N/A	N/A

Additional Information: SIGNED MANIFEST IS REQUIRED FOR EACH PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

PROFILE EXPIRES 06/10/2022 | MATERIAL CODE VQ-OFF SPEC | EAV 21 TONS

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.

Cannot Exceed Daily Volume of 21 TONS Without Prior Approval of Company.

**(B) Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

1)N/A

2)N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 06/10/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

**THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.**

GENERATOR

*Michelle Huttes*

SIGNATURE (AUTHORIZED REPRESENTATIVE)

NAME AND TITLE (PLEASE PRINT)

DATE

REPUBLIC SERVICES/COMPANY

SIGNATURE (AUTHORIZED REPRESENTATIVE)

EDWARD ANTOLIN, MESA

NAME AND TITLE (PLEASE PRINT)

6/11/2021

DATE

# Terms and Conditions of Special Waste Service Agreement

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
  5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
  6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).
  7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.
  8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
  9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.
  10. **Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warranties or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.
  11. **Driver's Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
  12. **Indemnification.** Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, lenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
  13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	\$1,000,000 combined single limit
- General Liability (including the Umbrella/Excess policy) must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (ii) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.
14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.
  15. **Assignment.** Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.
  16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.
  17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.
  18. **Miscellaneous.**
    - (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
    - (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
    - (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
    - (D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or date) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
    - (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
    - (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
    - (G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
    - (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
    - (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.
  20. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.
  21. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (i) Commercial



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
51232128818

Expiration Date  
6/17/2022

### I. Decision Request:

Initial     Recertification     Change

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: UCHIDA OF AMERICA CORP

Generator Site Address: 3535 DEL AMO BLVD

City: TORRANCE

County:

State: CA

Zip:

Name of Waste: OLD PENS AND MARKERS NON HAZ WASTE

Estimated Annual Volume: 3000 Pounds

### II. Special Waste Department Decision:

Approved     Rejected

Management Method(s):     Landfill     Solidification     Bioremediation     Deep Well     Transfer Facility

Problematic Special Waste according to Republic?     Yes     No

If yes, which one?

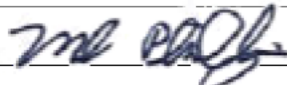
Approved by Special Waste Review Committee?

Yes     No     Not Applicable

### Precautions, Conditions or Limitations on Approval

This approval is limited to the Old Pens and Markers Non Haz Waste as represented by the SDS identified Water Based Matiere Ink list amended on 6/18/2021.

This material must be buried immediately upon receipt at the landfill.

Special Waste Analyst Signature: 

Date: 6/18/2021

Name (Printed): MARK PHILLIPS

### III. Facility Decision:

Approved     Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Date: 6/18/2021

Name (Printed): CHRIS COYLE

# Special Waste Profile



Disposal Facility: 5123 Sunshine Canyon Landfill CA  Waste Profile #: 5123 21 28818  
Sales Rep #:

## I. Generator Information

Generator Name: Uchida of America, Corp.  
Generator Site Address: 3535 Del Amo Blvd.  
City: Torrance County: Los Angeles State: California  Zip: 90503  
State ID/Reg No:  State Approval/Waste Code:  NAICS #:   
Generator Mailing Address  (if different)   
City:  County:  State: --Select State-- Zip:   
Generator Contact Name: Grace Higa Vincent Email: grace@uchida.com  
Phone Number: 4243276218 Ext:  Fax Number: 8002297017

## II. Billing Information

Bill To: Uchida of America, Corp. Contact Name: Grace Higa Vincent  
Billing Address: 3535 Del Amo Blvd. Email: grace@uchida.com  
City: Torrance State: California  Zip: 90503 Phone: 4243276218

## III. Waste Stream Information

Name of Waste: Old Pens and Markers Non Hazardous Waste  
Process Generating Waste: Old pens and markers, ink may be dried up. Items are discontinued and no longer for sale.  
Type of Waste: Industrial Process Waste  Physical State: Liquid  Method of Shipment: Bulk   
Estimated Volume: 3000 Volume Type: Pounds   
Frequency: One-time Event (single project)  Disposal Consideration: Landfill

## IV. Representative Sample Certification

No Sample Taken  
 Sample Taken Type of Sample --Select Sample Type--  
Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent?  Yes  No  
Sample Date:  Sample ID Numbers or SDS: Water-Based Matiere Ink - See attached for list of colors

Remember to attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

# Special Waste Profile



## V. Physical Characteristics of Waste

Characteristic Components (must equal 100%):

% By Weight (out of 100% - ranges acceptable):

1. Purified Water	60
2. Nonionic surfactant (Non contain MNonyl phenol)	5
3. CI Yellow, Blue and Black	15
4. Ethylene Glycol	20
5.	

Color:  Odor (describe):  Does Waste Contain Free Liquids?  Yes  No % Solids:  pH:  Flash Point:  °F

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) including Chain of Custody and required parameters provided for this profile.

## RCRA Regulatory Questions

- Does this waste or generating process contain regulated concentrations of the following Pesticides and/ or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?  Yes  No
- Does this waste contain reactive sulfides (greater than 500 ppm) or reactive cyanide (greater than 250 ppm) [reference 40 CFR 261.23(a)(5)]?  Yes  No
- Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?  Yes  No
- Does this waste contain concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?  Yes  No
- Has this waste been delisted under 40 CFR 260.20 and 260.22? If yes, attach the final decision to delist the waste as published in the Federal Register.  Yes  No
- Does this waste exhibit a Hazardous Characteristic as defined by Federal and/or State regulations? If Yes, identify the applicable waste code and specify if the waste is hazardous as defined by Federal, State or both?
- Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCCD), or any other dioxin as defined in 40 CFR 261.31?  Yes  No
- Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?  Yes  No
- Is this a solid waste that is not a hazardous waste in accordance with 40 CFR 261.4(b)? If yes, please provide the corresponding regulatory citation.

## Republic Services Waste Handling Questions


- Does this waste generate heat or react when contacted with water/moisture?  Yes  No
- Does the waste contain sulfur or sulfur by-products?  Yes  No
- Is this waste generated at a State or Federal Superfund cleanup site subject to regulation under CERCLA?  Yes  No
- 4a. Is this waste from a TSD facility, TSD-like facility or consolidator (i.e. multiple wastes/multiple generators)?  Yes  No
- 4b. If yes to the above question, please provide clarification.

## VI. Certification

*I hereby certify that I have knowledge about the waste material being offered for disposal ("Waste") and have the requisite authority to bind the Generator to the information contained in this Special Waste Profile ("Profile"). I further certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the Waste and all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the Waste.*

*I further certify that by utilizing this Profile, neither myself nor any other employee or representative of the company identified below ("Company") will deliver for disposal or attempt to deliver for disposal any Waste that: (i) is classified as toxic waste, hazardous waste or infectious waste; (ii) that does not conform to this Profile; or (iii) that this Disposal Facility is prohibiting from accepting by law. I shall immediately give written notice of any change or condition pertaining to the Waste not provided herein. Our Company hereby agrees to fully indemnify this Disposal Facility against any damages resulting from this Profile or Certification being inaccurate or untrue.*

*I understand that by attaching an electronic signature, I am signing this document and Company consents to complete this transaction and receive all related communications electronically, and agrees this document will be binding as though it had been physically signed. A printout of this Profile may be accepted with the same authority as the original.*

Grace Higa Vincent	Administrative Manager	Uchida of America, Corp.
Authorized Representative Name (Printed)	Title (Printed)	Company Name
	06/17/2021	
Representative Signature	Date	



## Kidd, Kelly - Stockton

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**From:** Grace Higa-vincent <grace@uchida.com>  
**Sent:** Friday, June 18, 2021 8:57 AM  
**To:** Kidd, Kelly - Stockton  
**Cc:** Antolin, Edward  
**Subject:** RE: RE: Roll Off Bin and Document of Destruction

Note that ([grace@uchida.com](mailto:grace@uchida.com)) is an external email. Report suspicious emails by clicking on "Report Phishing"

Good morning Kelly,

Please accept this email as my permission to cross out #25 Bottle Green and #84 Taupe from the list and disregard #26 Silver Grey SDS.

Thank you very much.

Grace Higa Vincent  
Uchida of America, Corp.  
3535 Del Amo Blvd.  
Torrance, CA 90503  
Direct phone# 424-327-6218  
Email: [grace@uchida.com](mailto:grace@uchida.com)



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**From:** Kidd, Kelly - Stockton [mailto:KKidd@republicservices.com]  
**Sent:** Friday, June 18, 2021 8:47 AM  
**To:** Grace Higa-vincent <grace@uchida.com>  
**Cc:** Antolin, Edward <EAntolin@republicservices.com>  
**Subject:** RE: RE: Roll Off Bin and Document of Destruction

51232128818  
Uchida of America Corp  
3535 Del Amo Blvd  
Torrance CA  
Old Pens and markers

I can cross out #25 Bottle Green and #84 Taupe from the list and let the analyst know #26 Silver Grey SDS should be disregarded, with your express permission. Please note that no markers #25, #26 or #84 will be acceptable for disposal under this profile.

Please respond with exactly what I have your permission to do. Your email will become part of the file.

Thanks

Updated Special Waste forms are available on our [website](#).

**Kelly Kidd**

Special Waste Sales Coordinator

1145 West Charter Way  
Stockton, CA 95206

e [kkidd@republicservices.com](mailto:kkidd@republicservices.com)

o 209-547-7519

f 209-466-1067 w [www.RepublicServices.com](http://www.RepublicServices.com)



We'll handle it from here.™

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**From:** Grace Higa-vincent <[grace@uchida.com](mailto:grace@uchida.com)>  
**Sent:** Friday, June 18, 2021 8:39 AM  
**To:** Kidd, Kelly - Stockton <[KKidd@republicservices.com](mailto:KKidd@republicservices.com)>  
**Cc:** Antolin, Edward <[EAntolin@republicservices.com](mailto:EAntolin@republicservices.com)>  
**Subject:** RE: RE: Roll Off Bin and Document of Destruction

Note that ([grace@uchida.com](mailto:grace@uchida.com)) is an external email. Report suspicious emails by clicking on "Report Phishing"

Hi Kelly,

Please delete the SDS for #26 silver grey we have no inventory. Can you cross out the #25 and #84 from the list?

Regards,

Grace Higa Vincent  
Uchida of America, Corp.  
3535 Del Amo Blvd.  
Torrance, CA 90503  
Direct phone# 424-327-6218  
Email: [grace@uchida.com](mailto:grace@uchida.com)



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**From:** Kidd, Kelly - Stockton [<mailto:KKidd@republicservices.com>]  
**Sent:** Friday, June 18, 2021 8:23 AM  
**To:** Grace Higa-vincent <[grace@uchida.com](mailto:grace@uchida.com)>  
**Cc:** Antolin, Edward <[EAntolin@republicservices.com](mailto:EAntolin@republicservices.com)>  
**Subject:** RE: RE: Roll Off Bin and Document of Destruction

FYI—the file I received labeled #84 Taupe is actually #85 Mocha and #25 Bottle Green is actually #26 Silver Grey.

Updated Special Waste forms are available on our [website](#).

**Kelly Kidd**

Special Waste Sales Coordinator

1145 West Charter Way  
Stockton, CA 95206

e [kkidd@republicservices.com](mailto:kkidd@republicservices.com)

o 209-547-7519

f 209-466-1067 w [www.RepublicServices.com](http://www.RepublicServices.com)



We'll handle it from here.™

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**From:** Kidd, Kelly - Stockton  
**Sent:** Friday, June 18, 2021 8:19 AM  
**To:** Grace Higa-vincent <[grace@uchida.com](mailto:grace@uchida.com)>  
**Cc:** Antolin, Edward <[EAntolin@republicservices.com](mailto:EAntolin@republicservices.com)>  
**Subject:** RE: RE: Roll Off Bin and Document of Destruction

Hi Grace,

The analyst reviewed this and had the following comments:

SDS for #26 Silver Grey included but not on the list.

SDS for #25 Bottle Green and #84 Taupe were listed, but SDS not provided.

Should these all be part of the profile? Please let me know about these and I can let you know what needs to be done to complete this.

Thanks

Updated Special Waste forms are available on our [website](#).



Generator Name: Uchida of America, Corp.  
3535 Del Amo Blvd.  
Torrance, CA 90503  
Phone Number: 424-327-6218

Type of Waste: Industrial Process Waste  
Disposal Consideration: Landfill

- WATER BASED MATIERE INK # 0 BLENDER
- WATER BASED MATIERE INK # 1 BLACK
- WATER BASED MATIERE INK # 2 RED
- WATER BASED MATIERE INK # 3 BLUE
- WATER BASED MATIERE INK # 4 GREEN
- WATER BASED MATIERE INK # 5 YELLOW
- WATER BASED MATIERE INK # 6 BROWN
- WATER BASED MATIERE INK # 7 ORANGE
- WATER BASED MATIERE INK # 8 VIOLET
- WATER BASED MATIERE INK # 9 PINK  
LIGHT
- WATER BASED MATIERE INK # 10 BLUE
- WATER BASED MATIERE INK # 11 LIGHT GREEN
- WATER BASED MATIERE INK # 12 GREY
- WATER BASED MATIERE INK # 13 OCHRE
- WATER BASED MATIERE INK # 14 TURQUOISE
- WATER BASED MATIERE INK # 15 OLIVE GREEN
- WATER BASED MATIERE INK # 16 PALE ORANGE  
STEEL
- WATER BASED MATIERE INK # 17 BLUE
- WATER BASED MATIERE INK # 18 DARK BROWN
- WATER BASED MATIERE INK # 19 CARMINE
- WATER BASED MATIERE INK # 20 MEGENTA
- WATER BASED MATIERE INK # 21 DARK GRAY
- WATER BASED MATIERE INK # 22 LEMON YELLOW
- WATER BASED MATIERE INK # 23 GOLD OCHRE
- WATER BASED MATIERE INK # 24 BEIGE



Generator Name: Uchida of America, Corp.  
3535 Del Amo Blvd.  
Torrance, CA 90503  
Phone Number: 424-327-6218

Type of Waste: Industrial Process Waste  
Disposal Consideration: Landfill

<del>WATER BASED MATIERE INK</del>	<del>#</del>	<del>25</del>	<del>BOTTLE GREEN</del>	per GHV email dated 6/18/2021 kk
WATER BASED MATIERE INK	#	27	OLIVE BROWN	
WATER BASED MATIERE INK	#	28	ENGLISH RED	
WATER BASED MATIERE INK	#	29	PRUSIAN BLUE	
WATER BASED MATIERE INK	#	30	ROSEWOOD	
WATER BASED MATIERE INK	#	31	PALE VIOLET	
WATER BASED MATIERE INK	#	32	LAUREL GREE	
WATER BASED MATIERE INK	#	33	ORIENTAL BLUE	
WATER BASED MATIERE INK	#	34	PALE GREEMN	
WATER BASED MATIERE INK	#	35	CORAL PINK	
WATER BASED MATIERE INK	#	36	MAGNANESE BLUE	
WATER BASED MATIERE INK	#	37	LIGHT COOL GREY	
WATER BASED MATIERE INK	#	38	OYSTER GREY	
WATER BASED MATIERE INK	#	39	ASH GREY	
WATER BASED MATIERE INK	#	40	BROWNISH GREY	
WATER BASED MATIERE INK	#	41	BLUE GREY	
WATER BASED MATIERE INK	#	42	CREAM YELLOW	
WATER BASED MATIERE INK	#	43	BRILLIANT YELLOW	
WATER BASED MATIERE INK	#	44	LIGHT BROWN	
WATER BASED MATIERE INK	#	45	SEPIA	
WATER BASED MATIERE INK	#	46	CRIMSON LAKE	
WATER BASED MATIERE INK	#	47	PALE PINK	
WATER BASED MATIERE INK	#	48	LEAF GREEN	
WATER BASED MATIERE INK	#	49	VERMILION	
WATER BASED MATIERE INK	#	50	ULTRAMARINE	



Generator Name: Uchida of America, Corp.  
3535 Del Amo Blvd.  
Torrance, CA 90503  
Phone Number: 424-327-6218

Type of Waste: Industrial Process Waste  
Disposal Consideration: Landfill

- WATER BASED MATIERE INK # 51 AQUA GREY
- WATER BASED MATIERE INK # 52 YELLOW GREEN
- WATER BASED MATIERE INK # 53 PALE BLUE
- WATER BASED MATIERE INK # 54 BURNT UMBER
- WATER BASED MATIERE INK # 55 IRIS PURPLE
- WATER BASED MATIERE INK # 56 DULL BLUE
- WATER BASED MATIERE INK # 57 ROSE PINK
- WATER BASED MATIERE INK # 58 PEACOCK GREEN
- WATER BASED MATIERE INK # 59 ROSEMARY
- WATER BASED MATIERE INK # 60 SALVIA BLUE
- WATER BASED MATIERE INK # 61 DEEP LILAC
- WATER BASED MATIERE INK # 62 WISTERIA
- WATER BASED MATIERE INK # 63 WINE
- WATER BASED MATIERE INK # 64 PLUM
- WATER BASED MATIERE INK # 65 CHERRY
- WATER BASED MATIERE INK # 66 DUSTY PINK
- WATER BASED MATIERE INK # 67 BUBBLE GUM PINK
- WATER BASED MATIERE INK # 68 DAFFODIL YELLOW
- WATER BASED MATIERE INK # 69 CITRUS YELLOW
- WATER BASED MATIERE INK # 70 PEPPERMINT
- WATER BASED MATIERE INK # 71 SPRING GREEN
- WATER BASED MATIERE INK # 72 PINE GREEN
- WATER BASED MATIERE INK # 73 TEL
- WATER BASED MATIERE INK # 74 AQUAMARINE
- WATER BASED MATIERE INK # 75 SKY BLUE

**UCHIDA OF AMERICA, CORP.**  
3535 Del Amo Boulevard  
Torrance, California 90503

Phone: (310) 793-2200  
(800) 541-5877  
Fax: (310) 793-2210  
(800) 229-7017



Generator Name: Uchida of America, Corp.  
3535 Del Amo Blvd.  
Torrance, CA 90503  
Phone Number: 424-327-6218

Type of Waste: Industrial Process Waste  
Disposal Consideration: Landfill

WATER BASED MATIERE INK	#	76	BLUSH PINK
WATER BASED MATIERE INK	#	77	PASTEL PEACH
WATER BASED MATIERE INK	#	78	ORCHID
WATER BASED MATIERE INK	#	79	GRAPE
WATER BASED MATIERE INK	#	80	VICTORIAN ROSE
WATER BASED MATIERE INK	#	81	PALE MAUVE
WATER BASED MATIERE INK	#	82	MUSTARD
WATER BASED MATIERE INK	#	83	BUTTERSCOTCH
<del>WATER BASED MATIERE INK</del>	<del>#</del>	<del>84</del>	<del>TAUPE</del> per GHV email dated 6/18/2021 kk
WATER BASED MATIERE INK	#	85	MOCHA
WATER BASED MATIERE INK	#	86	AFRICAN VIOLET
WATER BASED MATIERE INK	#	87	PUMPKIM
WATER BASED MATIERE INK	#	88	TERRA COTTA
WATER BASED MATIERE INK	#	89	PERSIMMON
WATER BASED MATIERE INK	#	90	SUEDE
WATER BASED MATIERE INK	#	91	TAN
WATER BASED MATIERE INK	#	92	CELERY
WATER BASED MATIERE INK	#	93	AUDERGINE
WATER BASED MATIERE INK	#	94	SCARLET
WATER BASED MATIERE INK	#	95	CELADOM
WATER BASED MATIERE INK	#	96	JUNGLE GREEN
WATER BASED MATIERE INK	#	97	APPLE GREEN
WATER BASED MATIERE INK	#	98	EMERALD
WATER BASED MATIERE INK	#	99	PERIWINKLE
WATER BASED MATIERE INK	#	100	SAPPHIRE
WATER BASED MATIERE INK	#	101	TROPICAL
WATER BASED MATIERE INK	#	102	JADE GREEN



Generator Name: Uchida of America, Corp.  
 3535 Del Amo Blvd.  
 Torrance, CA 90503  
 Phone Number: 424-327-6218

Type of Waste: Industrial Process Waste  
 Disposal Consideration: Landfill

WATER BASED MATIERE INK	#	103	EVER GREEN
WATER BASED MATIERE INK	#	104	CARRIBBEAN BLUE
WATER BASED MATIERE INK	#	105	LIGHT TEAL
WATER BASED MATIERE INK	#	106	AMETHYST
WATER BASED MATIERE INK	#	107	EGG PLANT
WATER BASED MATIERE INK	#	108	BLACK CHERRY

\*\*Please disregard SDS #26 Silver Grey. It was included in error. per GHV email dated 6/18/2021 kk

<u>Grace Higa Vincent</u>	<u>Administrative Manager</u>	<u>Uchida of America, Corp.</u>
Authorized Representative Name	Title	Company Name

	6/17/2021
Representative Signature	Date



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #0 BLENDER

Serial No. 150730-47

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #0 BLENDER

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

#### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #0 BLENDER

Serial No. 150730-47

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear suitable clothing and gloves.

#### Environmental precautions

At room temperature, no volatile materials are present in these inks.

#### Methods for cleaning up

Wipe the material with cloth and wash water.

### 7. HANDLING AND STORAGE

#### Handling

Wear suitable protective clothing and gloves.

#### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

##### Hand protection

protective gloves

##### Eye protection

safety glasses with side-shields

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	liquid
Colour	coloured
Odour	non

#### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

### 10. STABILITY AND REACTIVITY

#### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

#### Hazardous reactions

no.

### 11. TOXICOLOGICAL INFORMATION

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #0 BLENDER

Serial No. 150730-47

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

#1471594

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #1 BLACK**

Serial No. 150729-1

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**

**Identification of the product**

Product name : WATER-BASE MATIERE INK #1 BLACK

**Company/undertaking identification**

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

**Use of the substance/preparation**

: For Markers.

**2. HAZARDS IDENTIFICATION**

Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783 94-0	1.0 to 3.0
C. I. Acid Blue 9	3844-45-9	1.0 to 3.0
C. I. Acid Black 2	8005-03-6	5.0 to 10.0
Ethylene Glycol	107-21-1	20.0 to 25.0 ✓
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5 ✓	1.0 to 2.0
Purified Water	7732-18-5	residual part

**4. FIRST AID MEASURES**

**Inhalation**

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

**Skin contact**

Immediately rinse through with soap and water.

**Eye contact**

Immediately rinse the stained eye with plenty of water, and call on a physician.

**Ingestion**

They may be discarded the same as ordinary waste.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Water spray, foam, powder, and carbon dioxide.

**Specific hazards during fire fighting**

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #1 BLACK**

Serial No. 150729-1

Revision Date Jul.29.2015

Version 1.0

Print Date Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

**Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear suitable clothing and gloves.

**Environmental precautions**

At room temperature, no volatile materials are present in these inks.

**Methods for cleaning up**

Wipe the material with cloth and wash water.

**7. HANDLING AND STORAGE****Handling**

Wear suitable protective clothing and gloves.

**Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

**Hand protection**

protective gloves

**Eye protection**

safety glasses with side-shields

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	liquid
Colour	coloured
Odour	non

**Safety data**

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

**10. STABILITY AND REACTIVITY****Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

**Hazardous reactions**

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #1 BLACK**

Serial No. 150729-1

Revision Date Jul.29.2015

Version 1.0

Print Date Jul.29.2015

no.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

**12. ECOLOGICAL INFORMATION****Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

**Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Packaging**

Disposal according to local authority regulations.

**14. TRANSPORT INFORMATION**

Not available.

**15. REGULATORY INFORMATION**

Not available.

**16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #2 RED

Serial No. 150729-2

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #2 RED

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 87	17372-87-1	3.0 to 5.0
C. I. Acid Red 92	18472-87-2	3.0 to 5.0
C. I. Acid Yellow 23	1934-21-0	1.0 to 3.0
Ethylene Glycol	107-21-1	4.0 to 5.0
Diethylene Glycol	111-46-6	10.0 to 15.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #2 RED

Serial No. 150729-2

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #2 RED

Serial No. 150729-2  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #3 BLUE

Serial No. 150729-3  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #3 BLUE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN  
Telephone : +81-(0) 470-27-5151  
Telefax : +81-(0) 470-27-5474  
Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet 49	1694-09-3	1.0 to 2.0
C. I. Acid Blue 9	3844-45-9	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #3 BLUE

Serial No. 150729-3  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #3 BLUE

Serial No. 150729-3  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #4 GREEN

Serial No. 150729-4

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #4 GREEN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	1.0 to 4.0
C. I. Acid Yellow 23	1934-21-0	1.0 to 3.0
Diethylene Glycol	111-46-6	10.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #4 GREEN

Serial No. 150729-4

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #4 GREEN

Serial No. 150729-4  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #5 YELLOW

Serial No. 150729-5

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #5 YELLOW

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	1.5 to 3.5
Ethylene Glycol	107-21-1	4.0 to 5.0
Diethylene Glycol	111-46-6	10.0 to 15.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #5 YELLOW

Serial No. 150729-5

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #5 YELLOW

Serial No. 150729-5  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #6 BROWN

Serial No. 150729-6  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #6 BROWN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN  
Telephone : +81-(0) 470-27-5151  
Telefax : +81-(0) 470-27-5474  
Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 42	72927-70-9	1.0 to 3.0
C. I. Acid Red 18	2611-82-7	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #6 BROWN

Serial No. 150729-6  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #6 BROWN

Serial No. 150729-6  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/4

**Trade name: WATER-BASE MATIERE INK #7 ORANGE**

#4300 No.7 / #1122 No.7 / #1122MR No.7 / #1314 No.7 / #1500 No.7 / #1500MR No.7

Serial No. 150727-08

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #7 ORANGE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	2.5 to 3.0
C. I. Acid Red 87	17372-87-1	1.5 to 2.0
Diethylene glycol	111-46-6	15.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/4

**Trade name: WATER-BASE MATIERE INK #7 ORANGE**

#4300 No.7 / #1122 No.7 / #1122MR No.7 / #1314 No.7 / #1500 No.7 / #1500MR No.7

Serial No. 150727-08

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/4

**Trade name: WATER-BASE MATIERE INK #7 ORANGE**

#4300 No.7 / #1122 No.7 / #1122MR No.7 / #1314 No.7 / #1500 No.7 / #1500MR No.7

Serial No.	150727-08	Revision Date	Jul.27.2015
Version	1.0	Print Date	Jul.27.2015

## Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.  
It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 4/4

**Trade name: WATER-BASE MATIERE INK #7 ORANGE**

**#4300 No.7 / #1122 No.7 / #1122MR No.7 / #1314 No.7 / #1500 No.7 / #1500MR No.7**

Serial No. **150727-08**

Revision Date **Jul.27.2015**

Version **1.0**

Print Date **Jul.27.2015**

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #8 VIOLET

Serial No. 150729-7  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #8 VIOLET

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet 49	1694-09-3	1.5 to 3.5
C. I. Acid Red 52	3520-42-1	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #8 VIOLET

Serial No. 150729-7

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #8 VIOLET

Serial No. 150729-7  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #9 PINK

Serial No. 150729-8

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #9 PINK

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 92	18472-87-2	1.0 to 2.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

#### Special protective equipment for fire fighters

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #9 PINK

Serial No. 150729-8

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #9 PINK

Serial No. 150729-8

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/4

**Trade name: WATER-BASE MATIERE INK #10 LIGHT BLUE**

#4300 No.10 / #4300MR No.10 / #1122 No.10 / #1122MR No.10 / #1314 No.10/ #1500 No.10 / #1500MR No.10

Serial No. 150727-09

Revision Date

Jul.27.2015

Version 1.0

Print Date

Jul.27.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #10 LIGHT BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Direct Blue 87	1330-39-8	0.5 to 1.0
C. I. Acid Blue 9	3844-45-9	1.5 to 2.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/4

**Trade name: WATER-BASE MATIERE INK #10 LIGHT BLUE**

#4300 No.10 / #4300MR No.10 / #1122 No.10 / #1122MR No.10 / #1314 No.10/ #1500 No.10 / #1500MR No.10

Serial No. 150727-09  
Version 1.0

Revision Date  
Print Date

Jul.27.2015  
Jul.27.2015

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/4

**Trade name: WATER-BASE MATIERE INK #10 LIGHT BLUE**

#4300 No.10 / #4300MR No.10 / #1122 No.10 / #1122MR No.10 / #1314 No.10/ #1500 No.10 / #1500MR No.10

Serial No. 150727-09

Revision Date

Jul.27.2015

Version 1.0

Print Date

Jul.27.2015

## Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.  
It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 4/4

**Trade name: WATER-BASE MATIERE INK #10 LIGHT BLUE**

**#4300 No.10 / #4300MR No.10 / #1122 No.10 / #1122MR No.10 / #1314 No.10 / #1500 No.10 / #1500MR No.10**

Serial No. **150727-09**

Revision Date

**Jul.27.2015**

Version **1.0**

Print Date

**Jul.27.2015**

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

## Trade name: WATER-BASE MATIERE INK #11 LIGHT GREEN

#4300 No.11 / #4300MR No.11 / #1122 No.11 / #1122MR No.11 / #1314 No.11/

#1500 No.11 / #1500MR No.11

Serial No. 150727-10

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #11 LIGHT GREEN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.3
C. I. Acid Yellow 23	1934-21-0	4.0 to 5.0
Ethylene Glycol	107-21-1	15.0 to 20.0
Diethylene glycol	111-46-6	4.0 to 5.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

## Trade name: WATER-BASE MATIERE INK #11 LIGHT GREEN

#4300 No.11 / #4300MR No.11 / #1122 No.11 / #1122MR No.11 / #1314 No.11/

#1500 No.11 / #1500MR No.11

Serial No. 150727-10

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #11 LIGHT GREEN**

#4300 No.11 / #4300MR No.11 / #1122 No.11 / #1122MR No.11 / #1314 No.11/

#1500 No.11 / #1500MR No.11

Serial No. 150727-10

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #12 GREY

Serial No. 150729-9

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #12 GREY

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 1.0
C. I. Acid Yellow 36	587-98-4	< 1.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #12 GREY

Serial No. 150729-9

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #12 GREY

Serial No. 150729-9

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

no.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #13 OCHRE

Serial No. 150729-10

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #13 OCHRE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	1.0 to 2.0
C. I. Food Yellow 3	2783-94-0	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #13 OCHRE

Serial No. 150729-10

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #13 OCHRE

Serial No. 150729-10

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

no.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #14 TURQUOISE

Serial No. 150729-11

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #14 TURQUOISE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.5
C. I. Acid Blue 87	1330-39-8	0.5 to 1.0
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
C. I. Acid Blue 9	3844-45-9	0.5 to 1.0
Diethylene glycol	111-46-6	15.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #14 TURQUOISE**

Serial No. 150729-11

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #14 TURQUOISE**

Serial No. **150729-11**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #15 OLIVE GREEN

#4300 No.15 / #1122 No.15 / #1314 No.15/ #1500 No.15

Serial No. 150727-11

Revision Date

Jul.27.2015

Version

1.0

Print Date

Jul.27.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #15 OLIVE GREEN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	1.0 to 1.5
C. I. Direct Blue 87	1330-39-8	1.0 to 1.6
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
C. I. Acid Yellow 42	72927-70-9	3.5 to 3.8
Dimethyl sulfoxide	67-68-5	3.0 to 5.0
Diethylene glycol	111-46-6	15.0 to 18.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #15 OLIVE GREEN**

**#4300 No.15 / #1122 No.15 / #1314 No.15/ #1500 No.15**

Serial No. **150727-11**

Revision Date

**Jul.27.2015**

Version

**1.0**

Print Date

**Jul.27.2015**

## Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #15 OLIVE GREEN**

**#4300 No.15 / #1122 No.15 / #1314 No.15/ #1500 No.15**

Serial No. **150727-11**

Revision Date

**Jul.27.2015**

Version

**1.0**

Print Date

**Jul.27.2015**

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #16 PALE ORANGE

Serial No. 150729-12

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #16 PALE ORANGE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783-94-0	< 0.1
C. I. Acid Yellow 42	72927-70-9	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #16 PALE ORANGE**

Serial No. 150729-12

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #16 PALE ORANGE**

Serial No. 150729-12

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #17 STEEL BLUE**

Serial No. 150729-13

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #17 STEEL BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 1.0
C. I. Acid Violet 49	1694-09-3	< 0.1
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #17 STEEL BLUE**

Serial No. 150729-13

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #17 STEEL BLUE**

Serial No. **150729-13**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #18 DARK BROWN

Serial No. 150729-14

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #18 DARK BROWN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2738-94-0	0.1 to 1.2
C. I. Acid Blue 49	5-1611	0.1 to 0.5
C. I. Acid Blue 9	3844-45-9	0.1 to 0.7
C. I. Acid Black 2	8005-03-6	1.0 to 1.5
C. I. Acid Yellow 23	1934-21-0	1.0 to 1.2
C. I. Acid Yellow 42	72927-70-9	0.5 to 0.8
C. I. Acid Red 18	2611-82-7	3.0 to 4.5
DMSO	67-68-5	4.0 to 5.0
Diethylene Glycol	111-46-6	10.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #18 DARK BROWN**

Serial No. 150729-14

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid  
Colour coloured  
Odour non

### Safety data

pH value not available  
Boiling point/range ca. 100°C  
Solubility in water soluble  
Density ca. 1.0 to 1.1 g/cm<sup>3</sup>  
Volatile 30 to 60 %

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #18 DARK BROWN**

Serial No. **150729-14**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #19 CARMINE

Serial No. 150729-15

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #19 CARMINE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.5
C. I. Acid Red 87	17372-87-1	0.5 to 0.9
C. I. Acid Red 92	18472-87-2	5.0 to 7.0
DMSO	67-68-5	4.0 to 5.0
Ethylene Glycol	107-21-1	4.0 to 5.0
Diethylene Glycol	111-46-6	10.0 to 15.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #19 CARMINE

Serial No. 150729-15

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #19 CARMINE**

Serial No. **150729-15**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #20 MAGENTA

Serial No. 150729-16

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #20 MAGENTA

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 52	3520-42-1	1.0 to 4.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #20 MAGENTA

Serial No. 150729-16

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #20 MAGENTA**

Serial No. **150729-16**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #21 DARK GRAY**

**#4300 No.21 / #1122 No.21 / #1314 No.21 / #1500 No.21**

Serial No. **141204-12**

Revision Date

**Dec.04.2014**

Version **1.0**

Print Date

**Dec.04.2014**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #21 DARK GRAY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 2.8
C. I. Acid Yellow 36	587-98-4	< 2.8
Ethylene Glycol	107-21-1	15.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #21 DARK GRAY**

**#4300 No.21 / #1122 No.21 / #1314 No.21/ #1500 No.21**

Serial No. **141204-12**

Revision Date

**Dec.04.2014**

Version **1.0**

Print Date

**Dec.04.2014**

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #21 DARK GRAY**

**#4300 No.21 / #1122 No.21 / #1314 No.21/ #1500 No.21**

Serial No. **141204-12**

Revision Date

**Dec.04.2014**

Version

**1.0**

Print Date

**Dec.04.2014**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

## Trade name: WATER-BASE MATIERE INK #22 LEMON YELLOW

Serial No. 150729-17

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #22 LEMON YELLOW

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 3	8004-92-0	1.0 to 4.0
Diethylene glycol	111-46-6	15.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #22 LEMON YELLOW

Serial No. 150729-17

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #22 LEMON YELLOW**

Serial No. 150729-17

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #23 GOLD OCHRE**

Serial No. 150729-18

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #23 GOLD OCHRE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.2
C. I. Food Yellow 3	2783-94-0	0.1 to 0.2
C. I. Acid Yellow 42	72927-70-9	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #23 GOLD OCHRE

Serial No. 150729-18

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #23 GOLD OCHRE**

Serial No. **150729-18**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #24 BEIGE

Serial No. 150729-19

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #24 BEIGE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.2
C. I. Acid Yellow 42	72927-70-9	0.1 to 0.5
Ethylene Glycol	107-21-1	10.0 to 15.0
Diethylene Glycol	111-46-6	4.0 to 5.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #24 BEIGE

Serial No. 150729-19

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #24 BEIGE

Serial No. 150729-19

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #26 SILVER GREY**

Serial No. **150729-21**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #26 SILVER GREY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 0.2
C. I. Acid Yellow 36	587-98-4	< 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #26 SILVER GREY**

Serial No. 150729-21

Revision Date

Jul.29.2015

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extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #26 SILVER GREY**

Serial No. **150729-21**

Revision Date

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**Jul.29.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #27 OLIVE BROWN

Serial No. 150729-22

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #27 OLIVE BROWN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
C. I. Food Yellow 3	2783-94-0	0.5 to 0.8
C. I. Acid Yellow 42	72927-70-9	2.0 to 3.5
Diethylene Glycol	111-46-6	5.0 to 10.0
Ethylene Glycol	107-21-1	5.0 to 10.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #27 OLIVE BROWN**

Serial No. **150729-22**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #27 OLIVE BROWN**

Serial No. **150729-22**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #28 ENGLISH RED

Serial No. 150729-23

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #28 ENGLISH RED

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet 49	1694-09-3	0.1 to 0.5
C. I. Acid Red 18	2611-82-7	1.0 to 5.0
C. I. Acid Yellow 23	1934-21-0	0.1 to 1.5
C. I. Acid Red 87	17372-87-1	1.0 to 2.5
C. I. Acid Red 92	18472-87-2	1.0 to 1.8
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #28 ENGLISH RED**

Serial No. 150729-23

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #28 ENGLISH RED**

Serial No. **150729-23**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #29 PRUSIAN BLUE

Serial No. 150729-24

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #29 PRUSIAN BLUE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet 49	1694-09-3	1.0 to 4.5
C. I. Acid Blue 9	3844-45-9	5.0 to 6.5
C. I. Acid Yellow 42	72927-70-9	0.5 to 0.8
C. I. Acid Red 52	3520-42-1	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #29 PRUSIAN BLUE**

Serial No. 150729-24

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.



# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #29 PRUSIAN BLUE**

Serial No. **150729-24**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #30 ROSEWOOD

Serial No. 150729-25

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #30 ROSEWOOD

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783-94-0	0.1 to 0.4
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

#### Special protective equipment for fire fighters

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #30 ROSEWOOD**

Serial No. 150729-25

Revision Date

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Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #30 ROSEWOOD**

Serial No. **150729-25**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #31 PALE VIOLET**

Serial No. 150729-26

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #31 PALE VIOLET

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet	1694-09-3	0.1 to 0.2
C. I. Acid Red 92	18472-87-2	0.1 to 0.8
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #31 PALE VIOLET**

Serial No. 150729-26

Revision Date

Jul.29.2015

Version 1.0

Print Date

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## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #31 PALE VIOLET**

Serial No. **150729-26**

Revision Date

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Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #32 LAUREL GREEN**

Serial No. 150729-27

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #32 LAUREL GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2738-94-0	0.1 to 0.2
C. I. Acid Black 2	8005-03-6	0.1 to 0.2
C. I. Acid Blue 9	3844-45-9	0.1 to 0.2
C. I. Acid Yellow 42	72927-70-9	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

**Trade name: WATER-BASE MATIERE INK #32 LAUREL GREEN**

Serial No. 150729-27

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #32 LAUREL GREEN**

Serial No. **150729-27**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #33 ORIENTAL BLUE**

#4300 No.33 / #1122 No.33 / #1314 No.33 / #1500 No.33

Serial No. **150727-13**

Revision Date

**Jul.27.2015**

Version

**1.0**

Print Date

**Jul.27.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #33 ORIENTAL BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet 49	1694-09-3	0.3 to 0.7
C. I. Acid Blue 9	3844-45-9	5.0 to 6.0
C. I. Acid Yellow 42	72927-70-9	0.9 to 1.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #33 ORIENTAL BLUE**

#4300 No.33 / #1122 No.33 / #1314 No.33 / #1500 No.33

Serial No. 150727-13

Revision Date

Jul.27.2015

Version

1.0

Print Date

Jul.27.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #33 ORIENTAL BLUE**

**#4300 No.33 / #1122 No.33 / #1314 No.33 / #1500 No.33**

Serial No. **150727-13**

Revision Date

**Jul.27.2015**

Version

**1.0**

Print Date

**Jul.27.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #34 PALE GREEN**

Serial No. 150729-28

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #34 PALE GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.3
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
C. I. Acid Yellow 42	72927-70-9	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #34 PALE GREEN**

Serial No. 150729-28

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #34 PALE GREEN**

Serial No. **150729-28**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #35 CORAL PINK**

Serial No. **150729-29**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #35 CORAL PINK

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
C. I. Acid Red 73	5413-75-2	0.1 to 0.7
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #35 CORAL PINK**

Serial No. 150729-29

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #35 CORAL PINK**

Serial No. **150729-29**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #36 MANGANESE BLUE**

Serial No. 150729-31

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #36 MANGANESE BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #36 MANGANESE BLUE**

Serial No. 150729-31

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #36 MANGANESE BLUE**

Serial No. 150729-31

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/4

**Trade name: WATER-BASE MATIERE INK #37 LIGHT COOL GREY**

Serial No. 150729-31

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #37 LIGHT COOL GREY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 0.1
C. I. Acid Yellow 36	587-98-4	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/4

**Trade name: WATER-BASE MATIERE INK #37 LIGHT COOL GREY**

Serial No. 150729-31

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #37 LIGHT COOL GREY**

Serial No. 150729-31

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Odour non

## Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 4/4

**Trade name: WATER-BASE MATIERE INK #37 LIGHT COOL GREY**

Serial No. **150729-31**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #38 OYSTER GREY

Serial No. 150729-32

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #38 OYSTER GREY

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	10.0 to 25.0
C. I. Acid Yellow 42	72927-70-9	0.0 to 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #38 OYSTER GREY**

Serial No. 150729-32

Revision Date

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Print Date

Jul.29.2015

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #38 OYSTER GREY**

Serial No. **150729-32**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #39 ASH GREY

Serial No. 150729-33

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #39 ASH GREY

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.7
C. I. Acid Blue 9	3844-45-9	1.0 to 1.5
C. I. Acid Yellow 42	72927-70-9	< 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #39 ASH GREY**

Serial No. 150729-33

Revision Date

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Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #39 ASH GREY**

Serial No. **150729-33**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #40 BROWNISH GREY**

Serial No. 150729-34

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #40 BROWNISH GREY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.7
C. I. Acid Yellow 42	72927-70-9	< 0.3
C. I. Acid Red 18	2611-82-7	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #40 BROWNISH GREY**

Serial No. 150729-34

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #40 BROWNISH GREY**

Serial No. **150729-34**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #41 BLUE GREY**

Serial No. 150729-35

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #41 BLUE GREY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #41 BLUE GREY**

Serial No. 150729-35

Revision Date

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Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #41 BLUE GREY**

Serial No. **150729-35**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #42 CREAM YELLOW**

Serial No. 150729-36

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #42 CREAM YELLOW

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	< 0.1
C. I. Acid Yellow 3	8004-92-0	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

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## Trade name: WATER-BASE MATIERE INK #42 CREAM YELLOW

Serial No. 150729-36

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Print Date

Jul.29.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions



# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #42 CREAM YELLOW**

Serial No. **150729-36**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #43 BRILLIANT  
YELLOW**Serial No. **150729-37**  
Version **1.0**Revision Date **Jul.29.2015**  
Print Date **Jul.29.2015****1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Identification of the product**

Product name : WATER-BASE MATIERE INK #43 BRILLIANT YELLOW

**Company/undertaking identification**Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

**Use of the substance/preparation**

: For Markers.

**2. HAZARDS IDENTIFICATION**

Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783-94-0	0.1 to 0.8
C. I. Acid Yellow 42	72927-70-9	1.0 to 5.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

**4. FIRST AID MEASURES****Inhalation**

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

**Skin contact**

Immediately rinse through with soap and water.

**Eye contact**

Immediately rinse the stained eye with plenty of water, and call on a physician.

**Ingestion**

They may be discarded the same as ordinary waste.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray, foam, powder, and carbon dioxide.

**Specific hazards during fire fighting**

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #43 BRILLIANT YELLOW

Serial No. 150729-37  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid  
Colour coloured  
Odour non

### Safety data

pH value not available  
Boiling point/range ca. 100°C  
Solubility in water soluble  
Density ca. 1.0 to 1.1 g/cm<sup>3</sup>  
Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #43 BRILLIANT YELLOW

Serial No. 150729-37

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It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #44 LIGHT BROWN

Serial No. 150729-38

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #44 LIGHT BROWN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 0.2
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 42	72927-70-9	1.0 to 3.0
C. I. Acid Red 87	17372-87-1	1.0 to 1.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #44 LIGHT BROWN**

Serial No. **150729-38**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form	liquid
Colour	coloured
Odour	non

### **Safety data**

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #44 LIGHT BROWN**

Serial No. **150729-38**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #45 SEPIA

Serial No. 150729-39

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #45 SEPIA

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	1.0 to 2.0
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
C. I. Acid Yellow 42	72927-70-9	1.0 to 5.0
C. I. Acid Red 87	17372-87-1	1.0 to 1.5
Dimethyl sulfoxide	67-68-5	3.0 to 5.0
Diethylene glycol	111-46-6	15.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #45 SEPIA

Serial No. 150729-39

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #45 SEPIA

Serial No. 150729-39

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #46 CRIMSON LAKE**

#4300 No.46 / #4300MR No.46 / #1122 No.46 / #1314 No.46 / #1500 No.46

Serial No. 150727-14

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #46 CRIMSON LAKE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 42	72927-70-9	2.0 to 3.0
C. I. Acid Red 87	17372-87-1	4.0 to 5.0
C. I. Acid Red 52	3520-42-1	0.3 to 0.5
C. I. Acid Red 92	18472-87-2	1.0 to 1.5
Ethylene Glycol	107-21-1	15.0 to 20.0
Diethylene glycol	111-46-6	4.0 to 5.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

**Trade name: WATER-BASE MATIERE INK #46 CRIMSON LAKE**

**#4300 No.46 / #4300MR No.46 / #1122 No.46 / #1314 No.46 / #1500 No.46**

Serial No. **150727-14**

Revision Date **Jul.27.2015**

Version **1.0**

Print Date **Jul.27.2015**

## Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid  
Colour coloured  
Odour non

### Safety data

pH value not available  
Boiling point/range ca. 100°C  
Solubility in water soluble  
Density ca. 1.0 to 1.1 g/cm<sup>3</sup>  
Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #46 CRIMSON LAKE**

**#4300 No.46 / #4300MR No.46 / #1122 No.46 / #1314 No.46 / #1500 No.46**

Serial No. **150727-14**

Revision Date **Jul.27.2015**

Version **1.0**

Print Date **Jul.27.2015**

## Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #47 PALE PINK

Serial No. 150729-40

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #47 PALE PINK

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783-94-0	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #47 PALE PINK**

Serial No. 150729-40

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #47 PALE PINK**

Serial No. **150729-40**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #48 LEAF GREEN

Serial No. 150729-41

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #48 LEAF GREEN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	1.0 to 1.5
C. I. Acid Yellow 23	1934-21-0	1.0 to 4.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #48 LEAF GREEN**

Serial No. 150729-41

Revision Date

Jul.29.2015

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extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #48 LEAF GREEN**

Serial No. **150729-41**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #49 VERMILION**

Serial No. 150729-42

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #49 VERMILION

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	1.0 to 5.0
C. I. Acid Red 87	17372-87-1	1.0 to 2.0
C. I. Acid Red 92	18472-87-2	1.0 to 1.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #49 VERMILION**

Serial No. 150729-42

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #49 VERMILION**

Serial No. 150729-42

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #50 ULTRAMARINE

Serial No. 150729-43

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #50 ULTRAMARINE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet 49	1694-09-3	1.0 to 2.0
C. I. Acid Blue 9	3844-45-9	1.0 to 2.0
C. I. Acid Blue 90	6104-58-1	1.0 to 4.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #50 ULTRAMARINE

Serial No. 150729-43

Revision Date

Jul.29.2015

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Print Date

Jul.29.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #50 ULTRAMARINE**

Serial No. 150729-43

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #51 AQUA GREY**

Serial No. 150729-44

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #51 AQUA GREY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 42	72927-70-9	1.0 to 1.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #51 AQUA GREY**

Serial No. 150729-44

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #51 AQUA GREY**

Serial No. **150729-44**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #52 YELLOW GREEN**

Serial No. 150729-45  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #52 YELLOW GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	1.0 to 2.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #52 YELLOW GREEN**

Serial No. 150729-45

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 3/3

**Trade name: WATER-BASE MATIERE INK #52 YELLOW GREEN**

Serial No. 150729-45  
Version 1.0

Revision Date Jul.29.2015  
Print Date Jul.29.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #53 PALE BLUE**

Serial No. 150729-46

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #53 PALE BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #53 PALE BLUE**

Serial No. 150729-46

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #53 PALE BLUE**

Serial No. 150729-46

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #54 BURNT UMBER

Serial No. 150729-47

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #54 BURNT UMBER

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 0.1
C. I. Acid Blue 9	3844-45-9	0.1 to 0.4
C. I. Acid Yellow 42	72927-70-9	1.0 to 5.0
C. I. Acid Red 87	17372-87-1	1.0 to 2.0
Dimethyl sulfoxide	67-68-5	3.0 to 5.0
Diethylene glycol	111-46-6	15.0 to 18.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #54 BURNT UMBER

Serial No. 150729-47

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #54 BURNT UMBER**

Serial No. **150729-47**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #55 IRIS PURPLE**

Serial No. 150729-48

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #55 IRIS PURPLE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 52	3520-42-1	0.1 to 0.2
C. I. Acid Red 92	18,472-87-2	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #55 IRIS PURPLE**

Serial No. 150729-48

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #55 IRIS PURPLE**

Serial No. 150729-48

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #56 DULL BLUE

Serial No. 150729-49

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #56 DULL BLUE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.5 to 0.8
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
C. I. Food Yellow 3	2783-94-0	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #56 DULL BLUE

Serial No. 150729-49

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #56 DULL BLUE**

Serial No. **150729-49**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #57 ROSE PINK**

Serial No. 150729-50

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #57 ROSE PINK

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783-94-0	0.1 to 0.2
C. I. Acid Red 87	17372-87-1	0.5 to 0.8
Ethylene Glycol	107-21-1	10.0 to 15.0
Diethylene Glycol	111-46-6	1.0 to 5.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #57 ROSE PINK**

Serial No. 150729-50

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #57 ROSE PINK**

Serial No. **150729-50**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #58 PEACOCK GREEN**

#4300 No.73 /#4300MR No.73/ #1122 No.58 /#1314 No.58/ #1500 No.58

Serial No. 150727-18

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #58 PEACOCK GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
Brilliant Blue FCF	3844-45-9	< 15.0
Tartrazine	1934-21-0	<15.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

**Trade name: WATER-BASE MATIERE INK #58 PEACOCK GREEN**

#4300 No.73 /#4300MR No.73/ #1122 No.58 /#1314 No.58/ #1500 No.58

Serial No. 150727-18

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 3/3

**Trade name: WATER-BASE MATIERE INK #58 PEACOCK GREEN**

**#4300 No.73 /#4300MR No.73/ #1122 No.58 /#1314 No.58/ #1500 No.58**

Serial No. **150727-18**

Revision Date **Jul.27.2015**

Version **1.0**

Print Date **Jul.27.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #59 ROSEMARY

Serial No. 150729-51

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #59 ROSEMARY

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 87	17372-87-1	1.0 to 2.0
C. I. Acid Red 92	18472-87-2	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #59 ROSEMARY**

Serial No. 150729-51

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #59 ROSEMARY**

Serial No. **150729-51**

Revision Date

**Jul.29.2015**

Version **1.0**

Print Date

**Jul.29.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #60 SALVIA BLUE**

Serial No. 150729-52

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #60 SALVIA BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
DYES	—	< 15.0
Ethylene Glycol	107-21-1	< 30.0
Detergent	—	< 5.0
Triethanolamine	102-71-6	< 5.0
Fungicide Agent	—	< 5.0
Purified Water	7732-18-5	Residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #60 SALVIA BLUE**

Serial No. 150729-52

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

## Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #60 SALVIA BLUE**

Serial No. 150729-52

Revision Date

Jul.29.2015

Version 1.0

Print Date

Jul.29.2015

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #61 DEEP LILAC**

Serial No. **150730-1**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #61 DEEP LILAC

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Direct Blue 87	1330-39-8	0.1 to 0.2
C. I. Acid Red 52	3520-42-1	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #61 DEEP LILAC**

Serial No. 150730-1

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #61 DEEP LILAC**

Serial No. **150730-1**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #62 WISTERIA**

Serial No. 150730-2

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Identification of the product**

Product name : WATER-BASE MATIERE INK #62 WISTERIA

**Company/undertaking identification**Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

**Use of the substance/preparation**

: For Markers.

**2. HAZARDS IDENTIFICATION**

Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 87	17372-87-1	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

**4. FIRST AID MEASURES****Inhalation**

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

**Skin contact**

Immediately rinse through with soap and water.

**Eye contact**

Immediately rinse the stained eye with plenty of water, and call on a physician.

**Ingestion**

They may be discarded the same as ordinary waste.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Water spray, foam, powder, and carbon dioxide.

**Specific hazards during fire fighting**

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

**Special protective equipment for fire fighters**

**SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #62 WISTERIA**

Serial No. 150730-2

Revision Date Jul.30.2015

Version 1.0

Print Date Jul.30.2015

Employ protective equipment commonly used in the event of fire.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Wear suitable clothing and gloves.

**Environmental precautions**

At room temperature, no volatile materials are present in these inks.

**Methods for cleaning up**

Wipe the material with cloth and wash water.

**7. HANDLING AND STORAGE****Handling**

Wear suitable protective clothing and gloves.

**Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

**Hand protection**

protective gloves

**Eye protection**

safety glasses with side-shields

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form liquid

Colour coloured

Odour non

**Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

**10. STABILITY AND REACTIVITY****Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

**Hazardous reactions**

no.

**11. TOXICOLOGICAL INFORMATION**

**SAFETY DATA SHEET**According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #62 WISTERIA**

Serial No.	150730-2	Revision Date	Jul.30.2015
Version	1.0	Print Date	Jul.30.2015

**Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

**12. ECOLOGICAL INFORMATION****Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

**Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

**13. DISPOSAL CONSIDERATIONS****Product**

Disposal according to local authority regulations.

**Packaging**

Disposal according to local authority regulations.

**14. TRANSPORT INFORMATION**

Not available.

**15. REGULATORY INFORMATION**

Not available.

**16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #63 WINE

Serial No. 150730-3

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #63 WINE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Direct Blue 87	1330-39-8	0.1 to 0.3
C. I. Acid Red 18	2611-82-7	0.5 to 0.9
C. I. Acid Red 52	3520-42-1	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #63 WINE

Serial No. 150730-3

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extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #63 WINE**

Serial No. 150730-3

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #64 PLUM

Serial No. 150730-4

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #64 PLUM

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
DYES	—	< 15.0
Ethylene Glycol	107-21-1	< 30.0
Detergent	—	< 5.0
Triethanolamine	102-71-6	< 5.0
Fungicide Agent	—	< 5.0
Purified Water	7732-18-5	Residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #64 PLUM

Serial No. 150730-4

Revision Date

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### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up. It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #64 PLUM

Serial No. 150730-4

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #65 CHERRY

Serial No. 150730-5

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #65 CHERRY

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 42	72927-70-9	1.0 to 3.0
C. I. Acid Red 87	17372-87-1	3.0 to 5.0
C. I. Acid Red 52	3520-42-1	0.5 to 0.8
C. I. Acid Red 92	18472-87-2	1.0 to 1.5
Diethylene Glycol	111-46-6	10.0 to 20.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #65 CHERRY

Serial No. 150730-5

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #65 CHERRY**

Serial No. **150730-5**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #66 DUSTY PINK**

Serial No. 150730-6

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #66 DUSTY PINK

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.4
C. I. Acid Red 18	2611-82-7	0.1 to 0.3
C. I. Acid Red 92	18472-87-2	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #66 DUSTY PINK**

Serial No. 150730-6

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #66 DUSTY PINK**

Serial No. **150730-6**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #67 BUBBLE GUM PINK**

Serial No. 150730-7

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #67 BUBBLE GUM PINK

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 87	17372-87-1	0.1 to 0.4
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #67 BUBBLE GUM PINK**

Serial No. 150730-7

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #67 BUBBLE GUM PINK**

Serial No. **150730-7**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #68 DAFFODIL YELLOW**

Serial No. **150730-8**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #68 DAFFODIL YELLOW

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
C. I. Acid Yellow 3	8004-92-0	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Triethanolamine	102-71-6	0.5 to 1.5
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

**Trade name: WATER-BASE MATIERE INK #68 DAFFODIL YELLOW**

Serial No. 150730-8

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 3/3

**Trade name: WATER-BASE MATIERE INK #68 DAFFODIL YELLOW**

Serial No. **150730-8**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #69 CITRUS YELLOW

Serial No. 150730-9

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #69 CITRUS YELLOW

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2738-94-0	2.5 to 3.0
C. I. Acid Blue 49	5-1611	0.1 to 0.2
C. I. Acid Blue 9	3844-45-9	0.1 to 0.3
C. I. Acid Black 2	8005-03-6	0.5 to 0.7
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
C. I. Acid Yellow 42	72927-70-9	0.5 to 0.6
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #69 CITRUS YELLOW

Serial No. 150730-9

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #69 CITRUS YELLOW**

Serial No. **150730-9**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **Hazardous reactions**

no.

## **11. TOXICOLOGICAL INFORMATION**

### **Acute toxicity**

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## **12. ECOLOGICAL INFORMATION**

### **Ecotoxic effects**

Quantitative data on the ecological effect of this product are not available.

### **Further ecologic data**

Do not allow entrance in waters, wastewater, or soil.

## **13. DISPOSAL CONSIDERATIONS**

### **Product**

Disposal according to local authority regulations.

### **Packaging**

Disposal according to local authority regulations.

## **14. TRANSPORT INFORMATION**

Not available.

## **15. REGULATORY INFORMATION**

Not available.

## **16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #70 PEPPERMINT

Serial No. 150730-10

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #70 PEPPERMINT

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.2
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #70 PEPPERMINT**

Serial No. **150730-10**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #70 PEPPERMINT**

Serial No. **150730-10**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/4

**Trade name: WATER-BASE MATIERE INK #71 SPRING GREEN**

Serial No. **150730-11**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #71 SPRING GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/4

**Trade name: WATER-BASE MATIERE INK #71 SPRING GREEN**

Serial No. **150730-11**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/4

## Trade name: WATER-BASE MATIERE INK #71 SPRING GREEN

Serial No. 150730-11

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.  
It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.



**SAFETY DATA SHEET**According to EC Directive 91/155/EEC

page. 4/4

**Trade name: WATER-BASE MATIERE INK #71 SPRING GREEN**Serial No. **150730-11**

Revision Date

**Jul.30.2015**Version **1.0**

Print Date

**Jul.30.2015****16. OTHER INFORMATION**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #72 PINE GREEN**

Serial No. 150730-12

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #72 PINE GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Violet	1694-09-3	0.1 to 0.2
C. I. Direct Blue 87	1330-39-8	1.0 to 3.0
C. I. Food Yellow 3	2783-94-0	0.1 to 0.4
C. I. Acid Yellow 42	72927-70-9	1.0 to 2.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #72 PINE GREEN**

Serial No. 150730-12

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #72 PINE GREEN**

Serial No. **150730-12**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #73 TEAL

Serial No. 150730-13

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #73 TEAL

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.5
C. I. Acid Blue 9	3844-45-9	1.0 to 4.0
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.4
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #73 TEAL

Serial No. 150730-13

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extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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## Trade name: WATER-BASE MATIERE INK #73 TEAL

Serial No. 150730-13

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

no.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #74 AWUAMARINE**

Serial No. **150730-14**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #74 AWUAMARINE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters



# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #74 AWUAMARINE**

Serial No. **150730-14**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #74 AWUAMARINE**

Serial No. **150730-14**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/4

**Trade name: WATER-BASE MATIERE INK #75 SKY BLUE**

Serial No. **150730-15**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #75 SKY BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.5 to 0.8
C. I. Acid Red 52	3520-42-1	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/4

**Trade name: WATER-BASE MATIERE INK #75 SKY BLUE**

Serial No. 150730-15

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #75 SKY BLUE**

Serial No. **150730-15**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

# **SAFETY DATA SHEET**

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #75 SKY BLUE**

Serial No. **150730-15**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #76 BLUSH PINK**

Serial No. **150730-16**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #76 BLUSH PINK

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 18	2611-82-7	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #76 BLUSH PINK**

Serial No. **150730-16**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #76 BLUSH PINK**

Serial No. **150730-16**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #77 PASTEL PEACH

Serial No. 150730-17

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #77 PASTEL PEACH

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
C. I. Acid Red 18	2611-82-7	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #77 PASTEL PEACH**

Serial No. 150730-17

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #77 PASTEL PEACH**

Serial No. **150730-17**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #78 ORCHID

#4300 No.78 / #1122 No.78 / #1314 No.78 / #1500 No.78

Serial No. 150727-15 Revision Date Jul.27.2015  
Version 1.0 Print Date Jul.27.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #78 ORCHID

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN  
Telephone : +81-(0) 470-27-5151  
Telefax : +81-(0) 470-27-5474  
Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Red 52	3520-42-1	0.1 to 0.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible. Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #78 ORCHID

#4300 No.78 / #1122 No.78 / #1314 No.78 / #1500 No.78

Serial No.

150727-15

Revision Date

Jul.27.2015

Version

1.0

Print Date

Jul.27.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #78 ORCHID

#4300 No.78 / #1122 No.78 / #1314 No.78 / #1500 No.78

Serial No.	150727-15	Revision Date	Jul.27.2015
Version	1.0	Print Date	Jul.27.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #79 GRAPE

Serial No. 150730-19

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #79 GRAPE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.2
C. I. Acid Red 18	2611-82-7	0.3 to 0.5
C. I. Acid Red 52	3520-42-1	0.5 to 1.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #79 GRAPE

Serial No. 150730-19

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #79 GRAPE

Serial No. 150730-19  
Version 1.0

Revision Date Jul.30.2015  
Print Date Jul.30.2015

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

#### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

### 13. DISPOSAL CONSIDERATIONS

#### Product

Disposal according to local authority regulations.

#### Packaging

Disposal according to local authority regulations.

### 14. TRANSPORT INFORMATION

Not available.

### 15. REGULATORY INFORMATION

Not available.

### 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #80 VICTORIAN ROSE**

Serial No. 150730-20

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #80 VICTORIAN ROSE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	< 0.1
C. I. Acid Red 18	2611-82-7	1.0 to 1.6
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #80 VICTORIAN ROSE**

Serial No. 150730-20

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #80 VICTORIAN ROSE**

Serial No. **150730-20**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #81 PALE MAUVE**

Serial No. 150730-21

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #81 PALE MAUVE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	< 0.1
C. I. Acid Red 18	2611-82-7	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #81 PALE MAUVE**

Serial No. 150730-21

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #81 PALE MAUVE**

Serial No. **150730-21**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #82 MUSTARD

Serial No. 150730-22

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #82 MUSTARD

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	1.0 to 1.4
C. I. Food Yellow 3	2783-94-0	0.5 to 1.0
C. I. Acid Red 52	3520-42-1	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #82 MUSTARD

Serial No. 150730-22

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

## Trade name: WATER-BASE MATIERE INK #82 MUSTARD

Serial No. 150730-22

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #83 BUTTERSCOTCH**

Serial No. 150730-23

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #83 BUTTERSCOTCH

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Food Yellow 3	2783-94-0	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #83 BUTTERSCOTCH

Serial No. 150730-23

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Employ protective equipment commonly used in the event of fire.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Wear suitable clothing and gloves.

#### Environmental precautions

At room temperature, no volatile materials are present in these inks.

#### Methods for cleaning up

Wipe the material with cloth and wash water.

### 7. HANDLING AND STORAGE

#### Handling

Wear suitable protective clothing and gloves.

#### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Form	liquid
Colour	coloured
Odour	non

#### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

### 10. STABILITY AND REACTIVITY

#### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

#### Hazardous reactions

no.

### 11. TOXICOLOGICAL INFORMATION

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #83 BUTTERSCOTCH**

Serial No. 150730-23

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #85 MOCHA

Serial No. 150730-25

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #85 MOCHA

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.7
C. I. Acid Yellow 42	72927-70-9	2.0 to 3.0
C. I. Acid Red 18	2611-82-7	2.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #85 MOCHA

Serial No. 150730-25

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #85 MOCHA**

Serial No. **150730-25**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #85 MOCHA

Serial No. 150730-25

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #85 MOCHA

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.7
C. I. Acid Yellow 42	72927-70-9	2.0 to 3.0
C. I. Acid Red 18	2611-82-7	2.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #85 MOCHA

Serial No. 150730-25

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #85 MOCHA**

Serial No. **150730-25**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #86 AFRICAN VIOLET**

Serial No. 150730-26

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #86 AFRICAN VIOLET

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	4.0 to 4.5
C. I. Acid Violet 49	1694-09-3	2.5 to 2.8
C. I. Acid Blue 9	3844-45-9	1.0 to 1.5
C. I. Acid Red 52	3520-42-1	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

**Trade name: WATER-BASE MATIERE INK #86 AFRICAN VIOLET**

Serial No. 150730-26

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #86 AFRICAN VIOLET**

Serial No. **150730-26**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #87 PUMPKIN

Serial No. 150730-27

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #87 PUMPKIN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	0.5 to 1.0
C. I. Food Yellow 3	2783-94-0	0.5 to 0.8
C. I. Acid Red 18	2611-82-7	0.5 to 0.7
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #87 PUMPKIN**

Serial No. 150730-27

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #87 PUMPKIN**

Serial No. **150730-27**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #88 TERRA COTTA**

Serial No. 150730-28

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #88 TERRA COTTA

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	0.5 to 1.0
C. I. Acid Red 18	2611-82-7	3.0 to 3.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #88 TERRA COTTA**

Serial No. 150730-28

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Jul.30.2015

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extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #88 TERRA COTTA**

Serial No. **150730-28**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #89 PERSIMMON**

Serial No. 150730-29

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #89 PERSIMMON

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	1.0 to 1.6
C. I. Acid Red 18	2611-82-7	3.0 to 3.6
C. I. Acid Red 87	17372-87-1	1.0 to 3.0
C. I. Acid Red 92	18472-87-2	1.0 to 3.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #89 PERSIMMON**

Serial No. 150730-29

Revision Date

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Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #89 PERSIMMON**

Serial No. **150730-29**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #90 SUEDE

Serial No. 150730-30  
Version 1.0

Revision Date Jul.30.2015  
Print Date Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #90 SUEDE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN  
Telephone : +81-(0) 470-27-5151  
Telefax : +81-(0) 470-27-5474  
Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.4
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
C. I. Food Yellow 3	2783-94-0	1.0 to 2.0
C. I. Acid Red 18	2611-82-7	0.1 to 0.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

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## Trade name: WATER-BASE MATIERE INK #90 SUEDE

Serial No. 150730-30

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Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #90 SUEDE**

Serial No. **150730-30**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #91 TAN

Serial No. 150730-31

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #91 TAN

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	< 0.1
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
C. I. Acid Red 18	2611-82-7	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

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**Trade name: WATER-BASE MATIERE INK #91 TAN**

Serial No. 150730-31

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Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

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**Trade name: WATER-BASE MATIERE INK #91 TAN**

Serial No. **150730-31**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #92 CELERY

Serial No. 150730-32

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #92 CELERY

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
C. I. Acid Yellow 42	72927-70-9	0.5 to 0.6
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

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## Trade name: WATER-BASE MATIERE INK #92 CELERY

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extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions



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**Trade name: WATER-BASE MATIERE INK #92 CELERY**

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Revision Date

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Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #93 AUBERGINE

Serial No. 150730-33

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #93 AUBERGINE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Red 18	2611-82-7	2.0 to 4.0
C. I. Acid Red 52	3520-42-1	1.5 to 2.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

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**Trade name: WATER-BASE MATIERE INK #93 AUBERGINE**

Serial No. **150730-33**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

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**Trade name: WATER-BASE MATIERE INK #93 AUBERGINE**

Serial No. **150730-33**

Revision Date

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Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #94 SCARLET

Serial No. 150730-34

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #94 SCARLET

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Yellow 23	1934-21-0	< 0.1
C. I. Acid Red 87	17372-87-1	1.0 to 4.0
C. I. Acid Red 52	3520-42-1	0.5 to 1.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #94 SCARLET

Serial No. 150730-34

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #94 SCARLET**

Serial No. **150730-34**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #95 CELADON

Serial No. 150730-35

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #95 CELADON

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	< 0.1
C. I. Acid Yellow 23	1934-21-0	< 0.1
C. I. Acid Red 18	2611-82-7	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #95 CELADON**

Serial No. 150730-35

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #95 CELADON**

Serial No. **150730-35**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #96 JUNGLE GREEN**

Serial No. 150730-36

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #96 JUNGLE GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
C. I. Acid Yellow 23	1934-21-0	2.0 to 3.0
C. I. Acid Red 18	2611-82-7	0.1 to 0.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #96 JUNGLE GREEN**

Serial No. 150730-36

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #96 JUNGLE GREEN**

Serial No. **150730-36**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #97 APPLE GREEN**

Serial No. 150730-37

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #97 APPLE GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.5 to 0.8
C. I. Acid Yellow 23	1934-21-0	1.0 to 2.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #97 APPLE GREEN**

Serial No. 150730-37

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #97 APPLE GREEN**

Serial No. 150730-37

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #98 EMERALD

Serial No. 150730-38

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #98 EMERALD

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	2.0 to 2.5
C. I. Acid Yellow 23	1934-21-0	0.5 to 1.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #98 EMERALD

Serial No. 150730-38

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #98 EMERALD**

Serial No. **150730-38**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #99 PERIWINKLE

#4300 No.99 / #1122 No.99 / #1122MR No.99 / #1314 No.99 / #1500 No.99 / #1500MR No.99

Serial No. 150727-16

Revision Date

Jul.27.2015

Version

1.0

Print Date

Jul.27.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #99 PERIWINKLE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.2
C. I. Acid Red 52	3520-42-1	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #99 PERIWINKLE

#4300 No.99 / #1122 No.99 / #1122MR No.99 / #1314 No.99 / #1500 No.99 / #1500MR No.99

Serial No. 150727-16

Revision Date

Jul.27.2015

Version

1.0

Print Date

Jul.27.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid  
Colour coloured  
Odour non

### Safety data

pH value not available  
Boiling point/range ca. 100°C  
Solubility in water soluble  
Density ca. 1.0 to 1.1 g/cm<sup>3</sup>  
Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #99 PERIWINKLE**

**#4300 No.99 / #1122 No.99 / #1122MR No.99 / #1314 No.99/ #1500 No.99 / #1500MR No.99**

Serial No. **150727-16**

Revision Date **Jul.27.2015**

Version **1.0**

Print Date **Jul.27.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #100 SAPPHIRE

Serial No. 150730-39

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #100 SAPPHIRE

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.5
C. I. Acid Red 52	3520-42-1	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

## Trade name: WATER-BASE MATIERE INK #100 SAPPHIRE

Serial No. 150730-39

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #100 SAPPHIRE**

Serial No. **150730-39**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #101 TROPICAL

Serial No. 150730-40

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #101 TROPICAL

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 1.0
C. I. Acid Yellow 23	1934-21-0	0.1 to 1.0
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #101 TROPICAL**

Serial No. 150730-40

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #101 TROPICAL**

Serial No. **150730-40**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #102 JADE GREEN**

Serial No. **150730-41**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #102 JADE GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.5
C. I. Acid Blue 9	3844-45-9	0.1 to 0.3
C. I. Acid Yellow 42	72927-70-9	0.1 to 0.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #102 JADE GREEN**

Serial No. 150730-41

Revision Date

Jul.30.2015

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Print Date

Jul.30.2015

extinguish.

## **Special protective equipment for fire fighters**

Employ protective equipment commonly used in the event of fire.

## **6. ACCIDENTAL RELEASE MEASURES**

### **Personal precautions**

Wear suitable clothing and gloves.

### **Environmental precautions**

At room temperature, no volatile materials are present in these inks.

### **Methods for cleaning up**

Wipe the material with cloth and wash water.

## **7. HANDLING AND STORAGE**

### **Handling**

Wear suitable protective clothing and gloves.

### **Storage**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **Personal protective equipment**

At room temperature, no volatile materials are present in these inks.

#### **Hand protection**

protective gloves

#### **Eye protection**

safety glasses with side-shields

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Appearance**

Form liquid

Colour coloured

Odour non

### **Safety data**

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## **10. STABILITY AND REACTIVITY**

### **Materials to avoid**

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### **Hazardous reactions**

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #102 JADE GREEN**

Serial No. **150730-41**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #103 EVER GREEN**

Serial No. 150730-43

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #103 EVER GREEN

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	1.0 to 2.0
C. I. Acid Blue 9	3844-45-9	5.0 to 6.0
C. I. Acid Yellow 23	1934-21-0	0.5 to 0.8
C. I. Acid Red 18	2611-82-7	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #103 EVER GREEN**

Serial No. 150730-43

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid  
Colour coloured  
Odour non

### Safety data

pH value not available  
Boiling point/range ca. 100°C  
Solubility in water soluble  
Density ca. 1.0 to 1.1 g/cm<sup>3</sup>  
Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #103 EVER GREEN**

Serial No. **150730-43**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #104 CARRIBEAN BLUE**

Serial No. 150730-43

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #104 CARRIBEAN BLUE

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	1.0 to 1.2
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.2
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #104 CARRIBEAN BLUE**

Serial No. 150730-43

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #104 CARRIBEAN BLUE**

Serial No. **150730-43**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #105 LIGHT TEAL**

Serial No. 150730-44

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #105 LIGHT TEAL

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	0.1 to 0.3
C. I. Acid Blue 9	3844-45-9	1.0 to 2.0
C. I. Acid Yellow 23	1934-21-0	0.1 to 0.3
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #105 LIGHT TEAL**

Serial No. 150730-44

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form liquid

Colour coloured

Odour non

### Safety data

pH value not available

Boiling point/range ca. 100°C

Solubility in water soluble

Density ca. 1.0 to 1.1 g/cm<sup>3</sup>

Volatile 30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #105 LIGHT TEAL**

Serial No. **150730-44**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

**Trade name: WATER-BASE MATIERE INK #106 AMETHYST**

#4300 No.106 / #4300MR No.106 / #1122 No.106 / #1122MR No.106 /  
#1314 No.106 / #1500 No.106 / #1500MR No.106

Serial No. 150727-17

Revision Date Jul.27.2015

Version 1.0

Print Date Jul.27.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #106 AMETHYST

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.1 to 0.4
C. I. Acid Red 52	3520-42-1	0.3 to 0.6
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #106 AMETHYST**

#4300 No.106 / #4300MR No.106 / #1122 No.106 / #1122MR No.106 /  
#1314 No.106 / #1500 No.106 / #1500MR No.106

Serial No.	150727-17	Revision Date	Jul.27.2015
Version	1.0	Print Date	Jul.27.2015

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

### Hazardous reactions

no.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #106 AMETHYST**

**#4300 No.106 / #4300MR No.106 / #1122 No.106 / #1122MR No.106 /  
#1314 No.106 / #1500 No.106 / #1500MR No.106**

Serial No.	<b>150727-17</b>	Revision Date	<b>Jul.27.2015</b>
Version	<b>1.0</b>	Print Date	<b>Jul.27.2015</b>

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.  
Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 1/3

## Trade name: WATER-BASE MATIERE INK #107 EGGPLANT

Serial No. 150730-45

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

#### Identification of the product

Product name : WATER-BASE MATIERE INK #107 EGGPLANT

#### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

#### Use of the substance/preparation

: For Markers.

### 2. HAZARDS IDENTIFICATION

Not applicable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Black 2	8005-03-6	1.0 to 3.0
C. I. Acid Violet 49	1694-09-3	1.0 to 1.5
C. I. Acid Red 18	2611-82-7	0.1 to 0.2
C. I. Acid Red 52	3520-42-1	< 0.1
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

### 4. FIRST AID MEASURES

#### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

#### Skin contact

Immediately rinse through with soap and water.

#### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

#### Ingestion

They may be discarded the same as ordinary waste.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

#### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 2/3

**Trade name: WATER-BASE MATIERE INK #107 EGGPLANT**

Serial No. 150730-45

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #107 EGGPLANT**

Serial No. **150730-45**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 1/3

**Trade name: WATER-BASE MATIERE INK #108 BLACK CHERRY**

Serial No. 150730-46

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

### Identification of the product

Product name : WATER-BASE MATIERE INK #108 BLACK CHERRY

### Company/undertaking identification

Company : MARVY Co.,LTD. TATEYAMA Factory  
1208 NAGO TATEYAMA-CITY, CHIBA 294-0055, JAPAN

Telephone : +81-(0) 470-27-5151

Telefax : +81-(0) 470-27-5474

Emergency telephone number : +81-(0) 470-27-5151

### Use of the substance/preparation

: For Markers.

## 2. HAZARDS IDENTIFICATION

Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS#	Content (wt%)
C. I. Acid Blue 9	3844-45-9	0.5 to 0.8
C. I. Acid Yellow 23	1934-21-0	0.5 to 0.8
C. I. Acid Red 18	2611-82-7	1.0 to 3.0
C. I. Acid Red 52	3520-42-1	1.0 to 1.5
Ethylene Glycol	107-21-1	20.0 to 25.0
Nonionic Surfactant (Not contain Nonyl phenol)	68002-97-1, 69011-36-5	1.0 to 2.0
Purified Water	7732-18-5	residual part

## 4. FIRST AID MEASURES

### Inhalation

No hazardous volatile material is present, so unless extra ordinary prolonged inhalation, dangerous cases are usually nothing.

### Skin contact

Immediately rinse through with soap and water.

### Eye contact

Immediately rinse the stained eye with plenty of water, and call on a physician.

### Ingestion

They may be discarded the same as ordinary waste.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water spray, foam, powder, and carbon dioxide.

### Specific hazards during fire fighting

Owing too much water, these inks are not in flammable, but the evaporation residue is combustible.

# SAFETY DATA SHEET

According to EC Directive 91/155/EEC page. 2/3

**Trade name: WATER-BASE MATIERE INK #108 BLACK CHERRY**

Serial No. 150730-46

Revision Date

Jul.30.2015

Version 1.0

Print Date

Jul.30.2015

Accordingly if the solid-state ink residues are burning, pouring of a plenty of water the most effective to extinguish.

## Special protective equipment for fire fighters

Employ protective equipment commonly used in the event of fire.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Wear suitable clothing and gloves.

### Environmental precautions

At room temperature, no volatile materials are present in these inks.

### Methods for cleaning up

Wipe the material with cloth and wash water.

## 7. HANDLING AND STORAGE

### Handling

Wear suitable protective clothing and gloves.

### Storage

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

At room temperature, no volatile materials are present in these inks.

#### Hand protection

protective gloves

#### Eye protection

safety glasses with side-shields

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
Colour	coloured
Odour	non

### Safety data

pH value	not available
Boiling point/range	ca. 100°C
Solubility in water	soluble
Density	ca. 1.0 to 1.1 g/cm <sup>3</sup>
Volatile	30 to 60 %

## 10. STABILITY AND REACTIVITY

### Materials to avoid

Take care not to leave for a prolonged time in a cap-off state, Otherwise ink will dry up.

It is preferable to storage ink in a cool and well ventilated place.



# SAFETY DATA SHEET

According to EC Directive 91/155/EEC

page. 3/3

**Trade name: WATER-BASE MATIERE INK #108 BLACK CHERRY**

Serial No. **150730-46**

Revision Date

**Jul.30.2015**

Version **1.0**

Print Date

**Jul.30.2015**

## Hazardous reactions

no.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

The main components of these inks are Diethylene glycol, and several additives.

Diethylene Glycol causes some damage to kidney.

## 12. ECOLOGICAL INFORMATION

### Ecotoxic effects

Quantitative data on the ecological effect of this product are not available.

### Further ecologic data

Do not allow entrance in waters, wastewater, or soil.

## 13. DISPOSAL CONSIDERATIONS

### Product

Disposal according to local authority regulations.

### Packaging

Disposal according to local authority regulations.

## 14. TRANSPORT INFORMATION

Not available.

## 15. REGULATORY INFORMATION

Not available.

## 16. OTHER INFORMATION

Keep out reach of baby or children.

For further information, please contact us.



# SPECIAL WASTE SERVICE AGREEMENT NON-HAZARDOUS WASTES

Special Waste Profile Number: 5123 21 28818

**Generator Billing Information**

**Republic Waste Location (Company)**

Name: UCHIDA OF AMERICA CORP (account TBD)  
 Address: 3535 DEL AMO BLVD  
 City: TORRANCE  
 State: CA Zip: 90503  
 Phone: 424.327.6218 Fax: \_\_\_\_\_  
 Contact: GRACE HIGA-VINCENT

SUNSHINE CANYON LANDFILL (5123)  
14747 SAN FERNANDO RD  
SYLMAR, CA 91342  
818.362.2141

Project: OUTDATED MARKERS AND PENS County and State of Origin: LOS ANGELES, CA

Additional Information: SITE: SAME AS BILLING

1. **Special Waste Service.** Subject to the terms and conditions contained herein, the Company and the Generator agree to be legally bound hereby, and the Company agrees to accept at its facility identified above ("Facility"), Acceptable Waste (as defined in Section 6) delivered by Generator.

2. (A) **Rates for Disposal:**

<u>Waste</u>	<u>Disposal Method</u>	<u>Disposal Rate:</u>	<u>Fees / Taxes / Misc.</u>	<u>Transportation</u>
<u>PENS&amp;MARKERS//OUTDATED MATERIAL</u>	<u>LANDFILL</u>	<u>[REDACTED]</u>	<u>[REDACTED]</u>	<u>\$635/PER HAUL</u>
	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>

Additional Information: PROFILE EXPIRES 06/17/2022 | MATERIAL CODE VR-OUTDATED MATERIAL | EAV 3000 POUNDS  
[REDACTED]  
PROFILED APPROVED LOAD RECEIVED AT SUNSHINE CANYON LANDFILL

Generator shall also be liable for all taxes, fees, or other charges imposed by federal, state, local or provincial laws and regulations.


Cannot Exceed Daily Volume of 3000 POUNDS Without Prior Approval of Company.

(B) **Incorporation by Reference.** In addition to Special Waste Profile(s), the following documents are incorporated by reference into this Agreement as if fully set forth herein.

- 1)N/A
- 2)N/A

3. **Term of Agreement.** This Agreement is effective for 12 months, commencing 06/18/2021 and shall automatically be renewed for a similar term thereafter unless either party shall give written notice (via certified mail) of termination to the other party at least thirty (30) days before the expiration of the then-current term.

THE COMPANY AND THE GENERATOR, IN CONSIDERATION OF THE MUTUAL OBLIGATIONS CONTAINED HEREIN, AGREE THAT THIS IS A LEGALLY BINDING AGREEMENT WHICH IS SUBJECT TO THE TERMS AND CONDITIONS SET FORTH ON THIS PAGE AND ON THE REVERSE SIDE OF THIS DOCUMENT. IN ADDITION, THE GENERATOR IS CERTIFYING THE ATTACHED TERMS AND CONDITIONS HAVE BEEN REVIEWED AND INITIALLED AT THE BOTTOM OF THE PAGE.

**GENERATOR**  
  
 SIGNATURE (AUTHORIZED REPRESENTATIVE)  
Grace Higa Vincent / Admin Mgr.  
 NAME AND TITLE (PLEASE PRINT)  
6/17/2021  
 DATE

**REPUBLIC SERVICES/COMPANY**  
 \_\_\_\_\_  
 SIGNATURE (AUTHORIZED REPRESENTATIVE)  
EDWARD ANTOLIN, MESE  
 NAME AND TITLE (PLEASE PRINT)  
6/21/2021  
 DATE

# Terms and Conditions of Special Waste Service Agreement

4. **The Agreement.** This agreement of the parties ("Agreement") for the disposal of Acceptable Waste shall consist of this Agreement, riders to the Agreement (if any), any Special Waste Profiles (including any approved changes and re-certifications) and any Application, permit and approval that may be applicable to the disposal of such Acceptable Waste ("Acceptable Waste Documentation").
5. **Waste Accepted at Facility.** Generator represents, warrants and covenants that the waste delivered to Company at its Facility hereunder will be Acceptable Waste and will not contain any unacceptable quantity of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances, as defined by applicable federal, state, local or provincial laws or regulations. Any waste which does not meet these requirements shall hereinafter be referred to as "Unacceptable Waste". The Generator shall in all matters relating to the collection, transportation and disposal of the Acceptable Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same (collectively, "Applicable Laws").
6. **Acceptable Waste.** Only waste that satisfies each of the following criteria shall be accepted for disposal at the Facility ("Acceptable Waste"): (a) the waste conforms to the description set forth in the Acceptable Waste Documentation; (b) the waste does not contain any Unacceptable Waste; (c) the waste is accurately reflected on any Special Waste Profile(s) as directed by the Company pursuant to Section 7; (d) the waste is acceptable for disposal at the Facility under all Applicable Laws; and (e) the transportation to and disposal of the waste at the Facility is otherwise in accordance with this Agreement. The parties may incorporate additional Acceptable Waste as part of this Agreement if prior to delivery of such Waste to Company, Generator has provided an Application for such Acceptable Waste and Company has approved disposal of such Acceptable Waste within the limitations and conditions contained in Company's written notice of approval of Special Waste Disposal. Title to and liability for any and all Acceptable Waste handled or disposed of by Company shall at all times remain with Generator and Broker (if a Broker is involved).
7. **Rights of Refusal/Rejection.** The Generator shall inspect all waste at the place(s) of collection and shall remove any and all Unacceptable Waste. Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility including if the Company believes (a) Generator has breached (or is breaching) its representations, warranties, covenants or agreements in this Agreement or any Acceptable Waste Documentation, or any Applicable Laws; or (b) that the waste contains Unacceptable Waste. The Company has the right to refuse, or to reject after acceptance, any load(s) of waste(s) delivered to its Facility if the Company has reason to believe, in its sole discretion, that the waste: (1) emits excessive odors; (2) negatively impacts operations at the Facility. Company shall have the right to inspect all vehicles and containers of waste haulers, including the Generator's vehicles, in order to determine whether the waste is Acceptable Waste pursuant to this Agreement and all Applicable Laws. The Company's exercise, or failure to exercise, its rights hereunder shall not operate to relieve the Generator of its responsibilities or liability under this Agreement.
8. **Limited License to Enter.** This Agreement provides Generator with a license to enter the Facility for the limited purpose of, and only to the extent necessary for, off-loading Acceptable Waste at the Facility in the manner directed by Company. Except in an emergency, Generator's personnel shall not leave the immediate vicinity of their vehicle. After off-loading the Acceptable Waste, Generator's personnel shall promptly leave the Facility. Under no circumstances shall Generator or its personnel engage in any scavenging of waste or other materials at the Facility. The Company reserves the right to make and enforce reasonable rules and regulations concerning the operation of the Facility, the conduct of the drivers and others on the Facility premises, quantities and sources of waste, and any other matters necessary or desirable for the safe, legal and efficient operation of the Facility including, but not limited to, speed limits on haul roads imposed by the Company, and the wearing of hard hats and other personal protection equipment by all individuals allowed on the Facility premises. Generator agrees to conform to such rules and regulations as they may be established and amended from time to time. Company may refuse to accept waste from and shall deny an entrance license to, any of Generator's personnel whom Company believes is under the influence of alcohol or other chemical substances. Generator shall be solely responsible for its employees and subcontractors performing their obligations in a safe manner when at the facility of Company.
9. **Charges and Payment.** Payment shall be made by Generator within thirty (30) days after receipt of invoice from Company. If any amount is overdue, the Company may terminate this Agreement. Generator agrees to pay a finance charge equal to the maximum interest rate permitted by law. Generator shall be liable for all taxes, fees, or other charges imposed upon the disposal of the Acceptable Waste by federal, state, local or provincial laws and regulations. Company, from time to time, may modify its rates upon thirty (30) days written notice to Generator. For the purposes of this section, written notice may be provided via email, certified mail, or overnight courier.
10. **Termination.** Company shall have the right to immediately terminate and/or suspend this Agreement upon the occurrence of any of the following events of default: (a) Generator's failure to timely pay any amounts due under this Agreement to Company; (b) Generator's breach of any of its obligations, representations, warrants or covenants under this Agreement or any Acceptable Waste Documentation; or (c) the filing of a voluntary or involuntary petition for reorganization or bankruptcy against Generator. Generator shall be liable for any losses, claims, expenses and damages incurred by Company as a result of suspension or termination hereunder. Generator's obligations, representations, warranties and covenants regarding the Acceptable Waste delivered and all indemnities contained in this Agreement shall survive expiration and termination of this Agreement. Additionally, Company shall have the right to terminate this Agreement for convenience at any time on 30 days' notice to Generator.
11. **Driver's Knowledge and Authority.** Generator represents, warrants and covenants that its drivers who deliver Acceptable Waste to Company's Facility have been advised by Generator of the Company's prohibition on deliveries of hazardous materials or substances, radioactive materials or substances, or toxic waste or substances or any other Unacceptable Waste to the Facility of Company's restrictions on deliveries of Special Waste to the Facility, of the definitions of "Hazardous Waste and Hazardous Substances" as provided by applicable federal, state and local law, rules and regulations and "Special Waste" as provided herein, and of the terms of this license to enter Company's Facility.
12. **Indemnification.** Generator shall indemnify, defend and hold harmless the Company and its subsidiaries, affiliates and parent corporations, as applicable and their respective officers, directors, tenders, employees, subcontractors and agents from and against any and all claims, suits, losses, liabilities, assessments, damages, fines, costs and expenses, including reasonable attorneys fees arising under federal, state or local laws, regulations or ordinances, or relating to the (a) the transportation to and/or disposal of any Unacceptable Waste at the Facility, whether or not Generator or Company was negligent in failing to identify the Unacceptable Waste; (b) the reloading and/or removal of Unacceptable Waste at the Facility; (c) any penalties, fines or remediation activities incurred by or imposed as the result of the transportation and/or disposal of Unacceptable Waste; (d) any increased inspection, testing, study and analysis costs made necessary due to reasonable concerns of Company as to the content of the waste transported and/or disposed of at the Facility following discovery of potentially Unacceptable Waste; and (e) the Company's inability to use the Facility due to the presence of Unacceptable Waste including without limitation any consequential damages. Company may also, in its sole discretion, require Generator to promptly remove the Unacceptable Waste at Generator's sole expense. This indemnification and other obligations stated in this paragraph shall survive the termination of this Agreement.
13. **Insurance.** Generator shall maintain in full force and effect throughout the term of this Agreement the following types of insurance in at least the amounts specified below:

Coverages	Minimum Amounts of Insurance
Worker's Compensation	Statutory
Employer's Liability	\$1,000,000
General Liability	\$1,000,000 combined single limit
Automobile Liability (if Generator hauling)	\$1,000,000 combined single limit

All insurance will be by insurers authorized to do business in the state in which the Facility is located. Generator shall deliver the Certificates of Insurance evidencing the foregoing policies to Company before Generator delivers any waste to the Facility pursuant to this Agreement. In addition, the (1) Commercial

General Liability (including the Umbrella/Excess policy) policy must include Contractual Liability coverage specifically covering Generator's indemnification of Company, and (2) The Commercial General Liability, Automobile Liability and the Umbrella/Excess Liability policies must be written on an "occurrence form". Said policies shall not thereafter be canceled, be permitted to expire or laps, or be changed without 30 days advance written notice has been given to Company. With the exception of workers' compensation, Company shall be shown as additional insureds under all of the insurance policies required by this Section 13. The policies required by this Section 13 shall be primary and non-contributory with respect to Company, and the insurance providers shall agree to waive their rights of subrogation against Company.

14. **Failure to Perform.** Except for Generator's obligation to pay amounts due to Company, neither party hereto shall be liable for its failure to perform hereunder due to circumstances not its fault and beyond its reasonable control, including, but not limited to, strikes or other labor disputes, riots, protests, civil disturbances or sabotage, changes in law, fires, floods, compliance with government requests, explosions, accidents, weather, lack of required natural resources, or acts of God affecting either party hereto. In the event of any of the circumstances provided for in the preceding sentence, including, but not limited to, whether any federal, state or local court or governmental authority takes any action which would (i) close or restrict operations at the Facility, (ii) limit the quantity or prohibit the disposal of Acceptable Waste at the Facility, or (iii) limit the ability of or prohibit Generator from delivering Acceptable Waste to the Facility, the Company shall have the right, at its option, to reduce, suspend or terminate Generator's access to the Facility immediately, without prior notice and without any additional liabilities between the parties, other than Generator's payment obligation hereunder. Neither Party is required hereunder to settle any labor dispute against its own best judgment.
15. **Assignment.** Generator may not assign, transfer or otherwise vest in any other Company, entity or person, in whole or in part, any of its rights or obligations under the Agreement without the prior written consent of the Company, provided, however, that the Company may without any such prior written consent, assign its rights and/or obligations under the Agreement to a subsidiary or affiliate corporation.
16. **Right of Disposal.** This Agreement does not grant any rights to dispose of waste other than in accordance herewith.
17. **Continuing Compliance.** The Generator has a continuing obligation to inform the Company of any new information, or information not previously provided to the Company by Generator which may affect the acceptability of the waste by the Company. Further, the Generator shall comply with all Company requests for evidence of Generator's continuing compliance with the terms of the Agreement including but not limited to the following: (i) providing new, updated Special Waste profiles on the waste(s) offered for disposal or, (ii) providing appropriate certification that the waste being offered for disposal is accurately reflected by the appropriate Special Waste Profile or, (iii) re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or, (iv) allow the Company to re-sample the waste at Generator's expense if reasonable cause exists as to its acceptability under the terms of this Agreement or any Acceptable Waste Documentation.
18. **Miscellaneous.**
  - (A) This Agreement shall be governed by the laws of the State in which the Facility is located.
  - (B) No waiver of a breach of any of the obligations contained in the Agreement shall be construed to be a waiver of any prior or succeeding breach of the same obligation or of any other obligation of this Agreement.
  - (C) Unless otherwise provided for herein, no modification, release, discharge or waiver of any provision or obligation hereof shall be of any force, or effect, unless in writing signed by all parties to this Agreement.
  - (D) Generator shall treat as confidential and not disclose to others during or subsequent to the terms of this Agreement, except as is necessary to perform this Agreement, or to comply with any applicable law or regulation any information (including any technical information, experience or data) regarding the Company's plans, programs, plants, processes, products, costs, equipment or operations which may come within the knowledge of the Generator or its employees in the performance of this Agreement, without in each instance securing the prior written consent of the other Company.
  - (E) If any term, phrase, obligation or provision of this Agreement shall be held to be invalid, illegal or unenforceable in any respect, this Agreement shall remain in effect and be construed without regard to such term, phrase, obligation or provision.
  - (F) This Agreement constitutes the entire understanding between the parties, replacing and amending any prior agreements between the parties, and shall be binding upon all parties hereto, their successors, heirs, representatives and assigns. Any provision, term or condition in any acknowledgement, purchase order or other response by Generator which is in addition to or different from the provisions of this Agreement shall be deemed objected to by the Company and shall be of no effect.
  - (G) Generator represents, warrants and covenants that it is and, during the term of this Agreement will remain, in compliance with and will perform its obligations pursuant to all applicable laws and regulations and shall indemnify, defend and hold harmless the Company from any breach thereof.
  - (H) It is the understanding and agreement of the parties that the Company is an independent contractor, and is not an agent, nor an authorized representative of the Generator.
  - (I) Company may provide any of the Services covered by this Agreement through any of its affiliates or subcontractors, provided that Company shall remain responsible for the performance of all such services and obligations in accordance with this Agreement.
20. **Notices.** Unless otherwise provided herein, all notices herein provided for shall be considered as having been given upon being placed in the mail, certified postage prepaid addressed to the Company or Generator at the address herein set forth in this Agreement or to such other address as may be given to the other party in writing.
21. **Liquidated Damages.** If Generator terminates this Agreement before its expiration other than as a result of a breach by Company, Generator shall pay Company an amount equal to the most recent month's monthly charges multiplied by the lesser of (a) six months or (b) the number of months remaining in the term. Generator acknowledges that in the event of such a termination, actual damages to Company would be uncertain and difficult to ascertain, such amount is the best, reasonable and objective estimate of the actual damages to Company, such amount does not constitute a penalty, and such amount is reasonable under the circumstances. Any amount payable under this paragraph shall be in addition to amounts already owing under this Agreement.

GENERATOR: 

REPUBLIC SERVICES/COMPANY: \_\_\_\_\_

December 2018



# Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

## SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #  
5123Y81869

Expiration Date  
~~2-14-2021~~ 2-14-2022

### I. Decision Request:

Initial  Recertification  Change

*Suzanne Glass*

Disposal Facility: 5123 - Sunshine Canyon Landfill

Generator Name: STERICYCLE, INC.

Generator Site Address: 2775 E. 26th STREET

City: VERNON

County: \_\_\_\_\_

State: CA

Zip: \_\_\_\_\_

Name of Waste: TREATED & STERILIZED MEDICAL WASTE

Estimated Annual Volume: 26,000 Tons

II. Special Waste Department Decision:  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Deep Well  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one? \_\_\_\_\_

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

### Precautions, Conditions or Limitations on Approval

Per the Special Waste Change form dated 11-5-2020, the estimated volume was increased 6000 tons.

Special Waste Analyst Signature: \_\_\_\_\_

Date: 11/5/2020

*Suzanne Glass*

Name (Printed): Suzanne Glass

III. Facility Decision:  Approved  Rejected

### Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: \_\_\_\_\_

Date: 11/5/2020

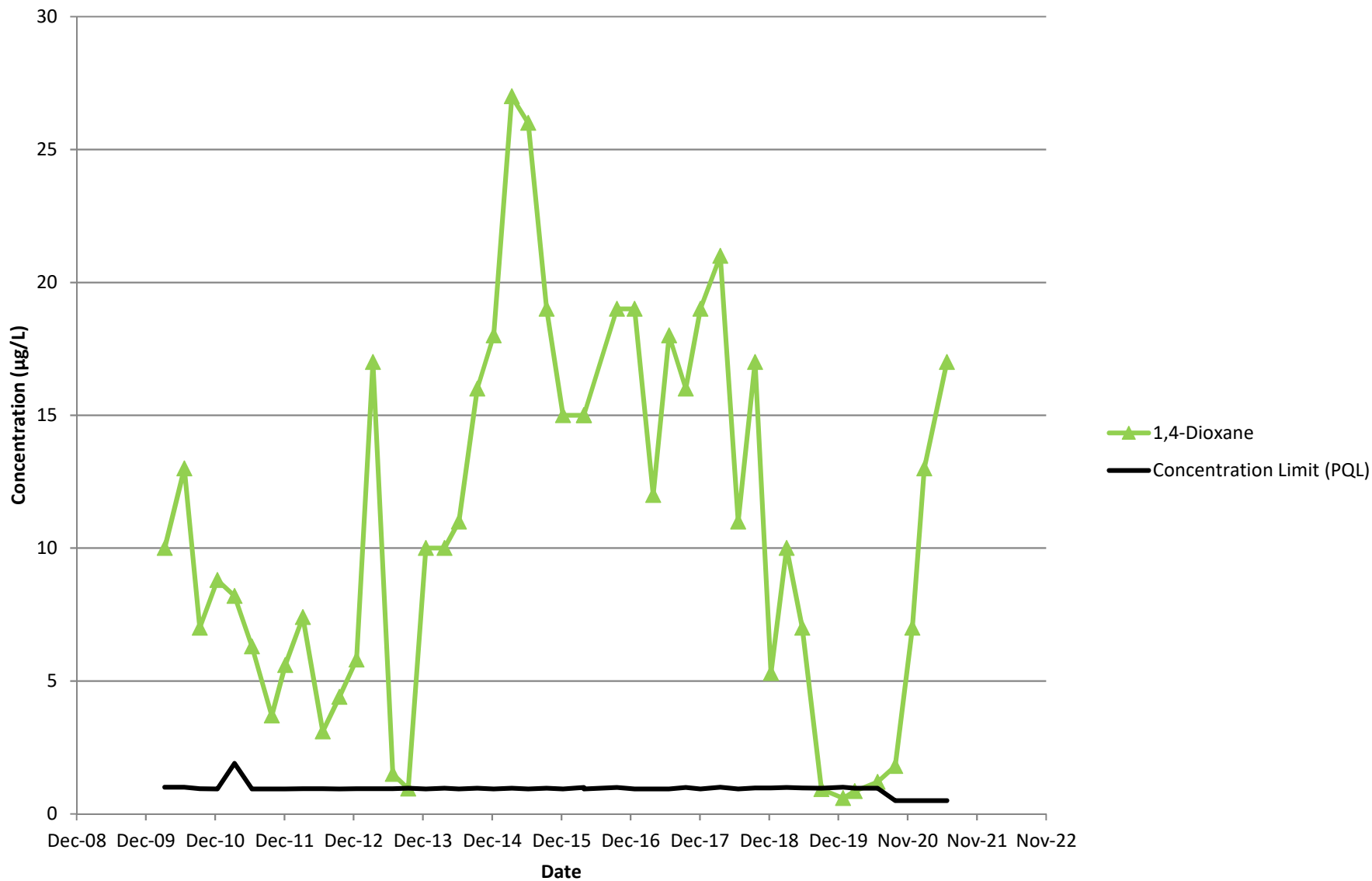
*Chris Coyle*

Name (Printed): CHRIS COYLE

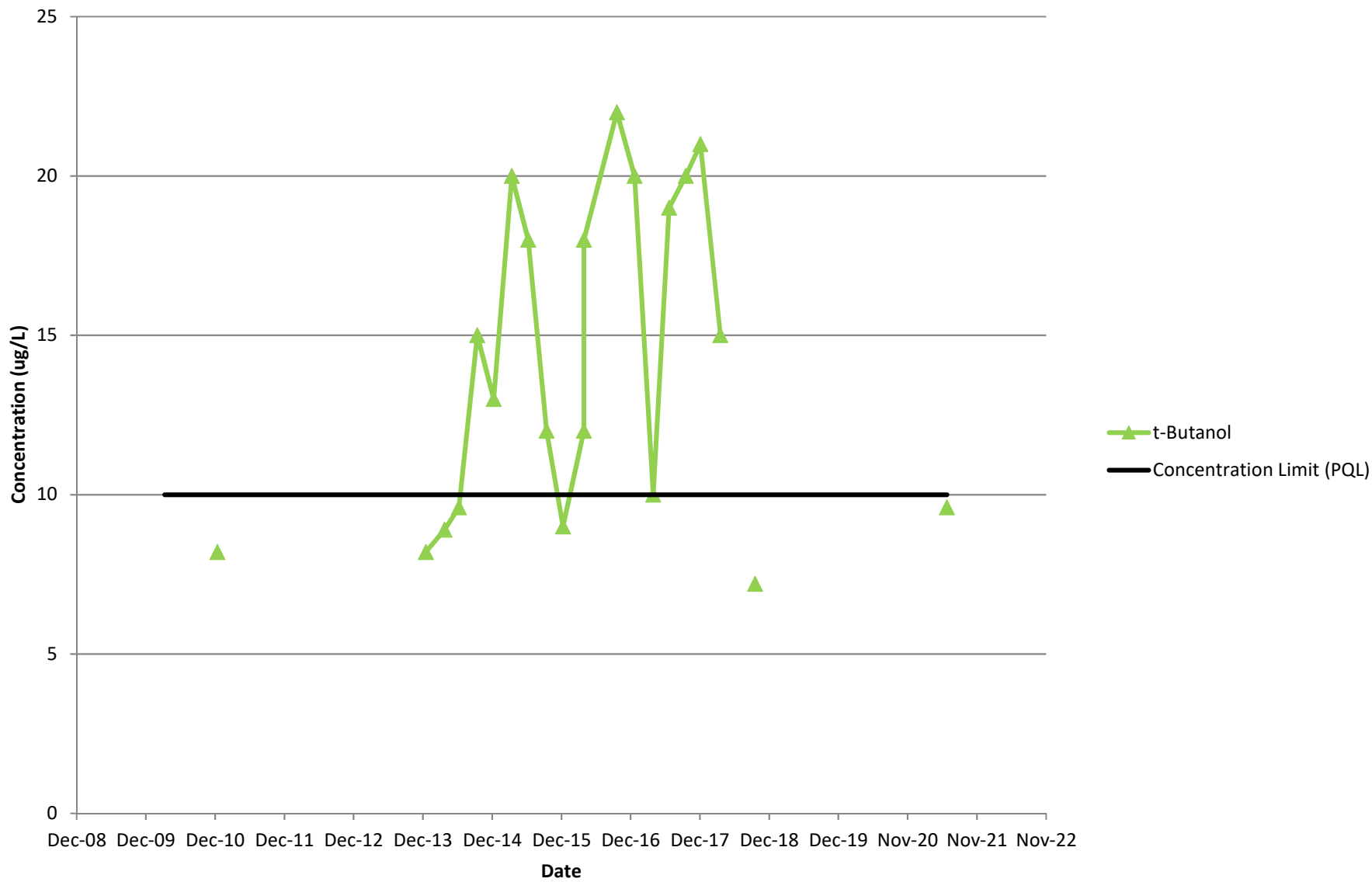
## **APPENDIX G**

### **TRACKING MODE TRENDS**

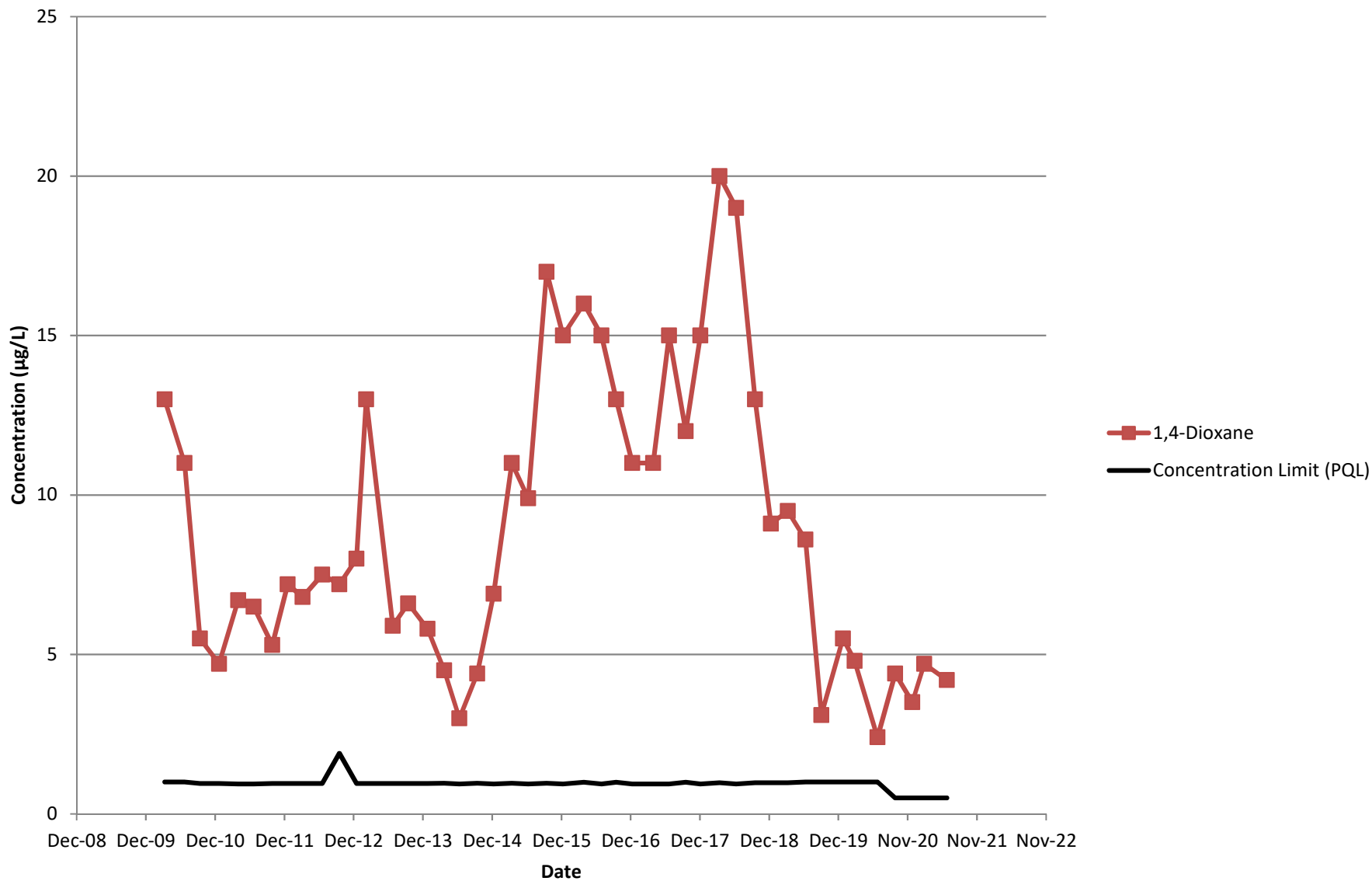
# Tracking Mode Evaluation Shallow Well MW-1



# Tracking Mode Evaluation Shallow Well MW-1

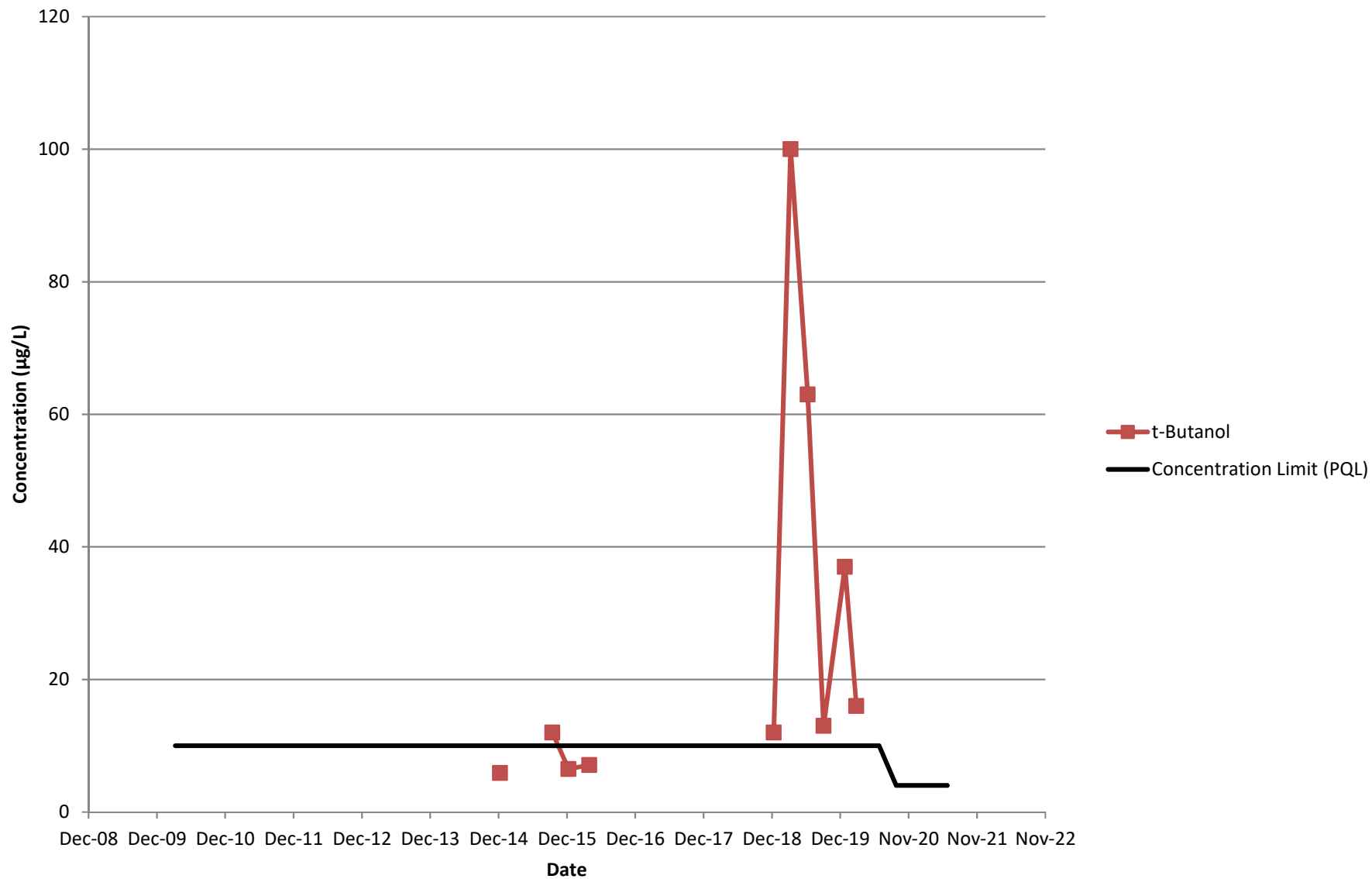


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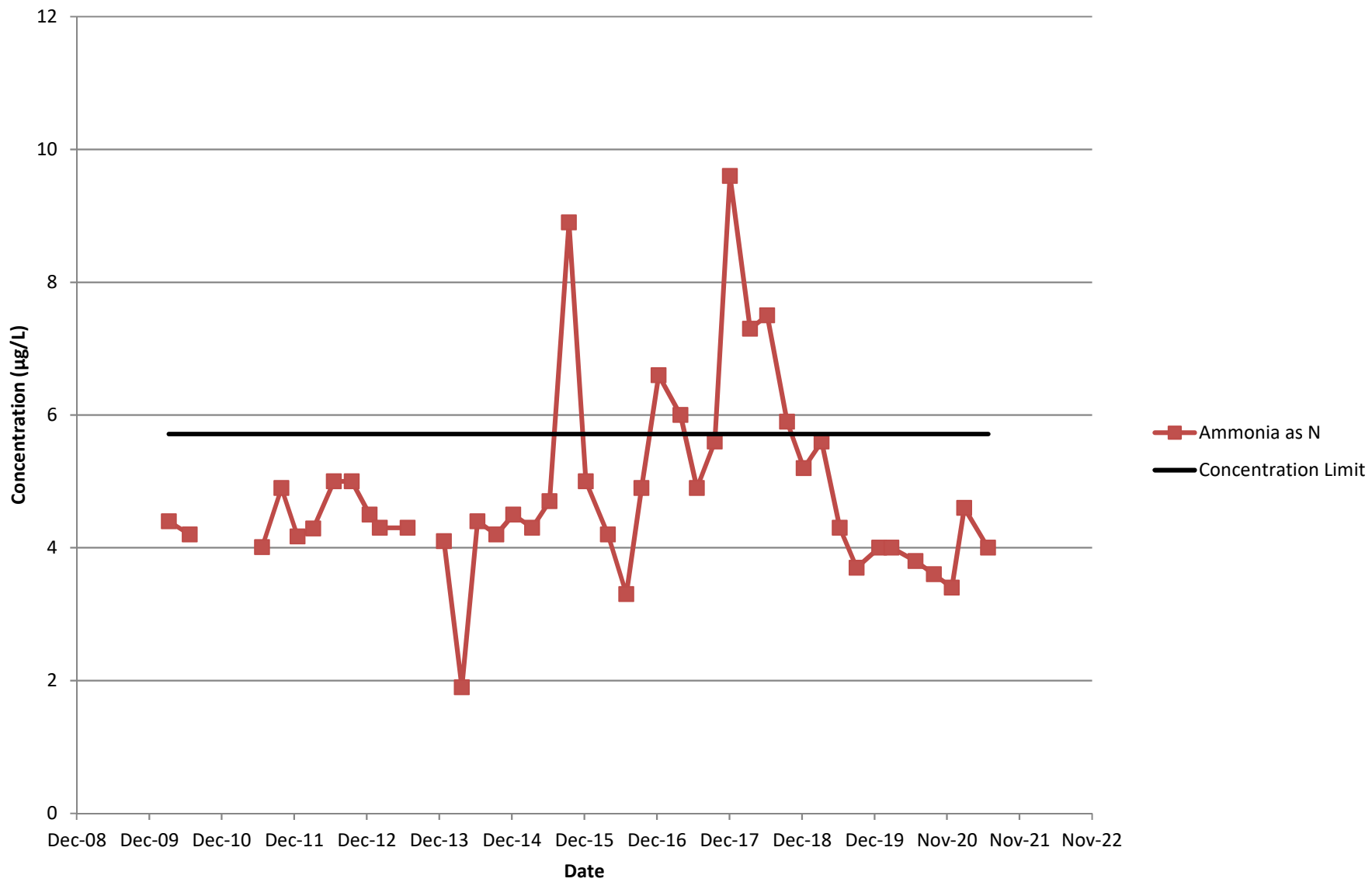




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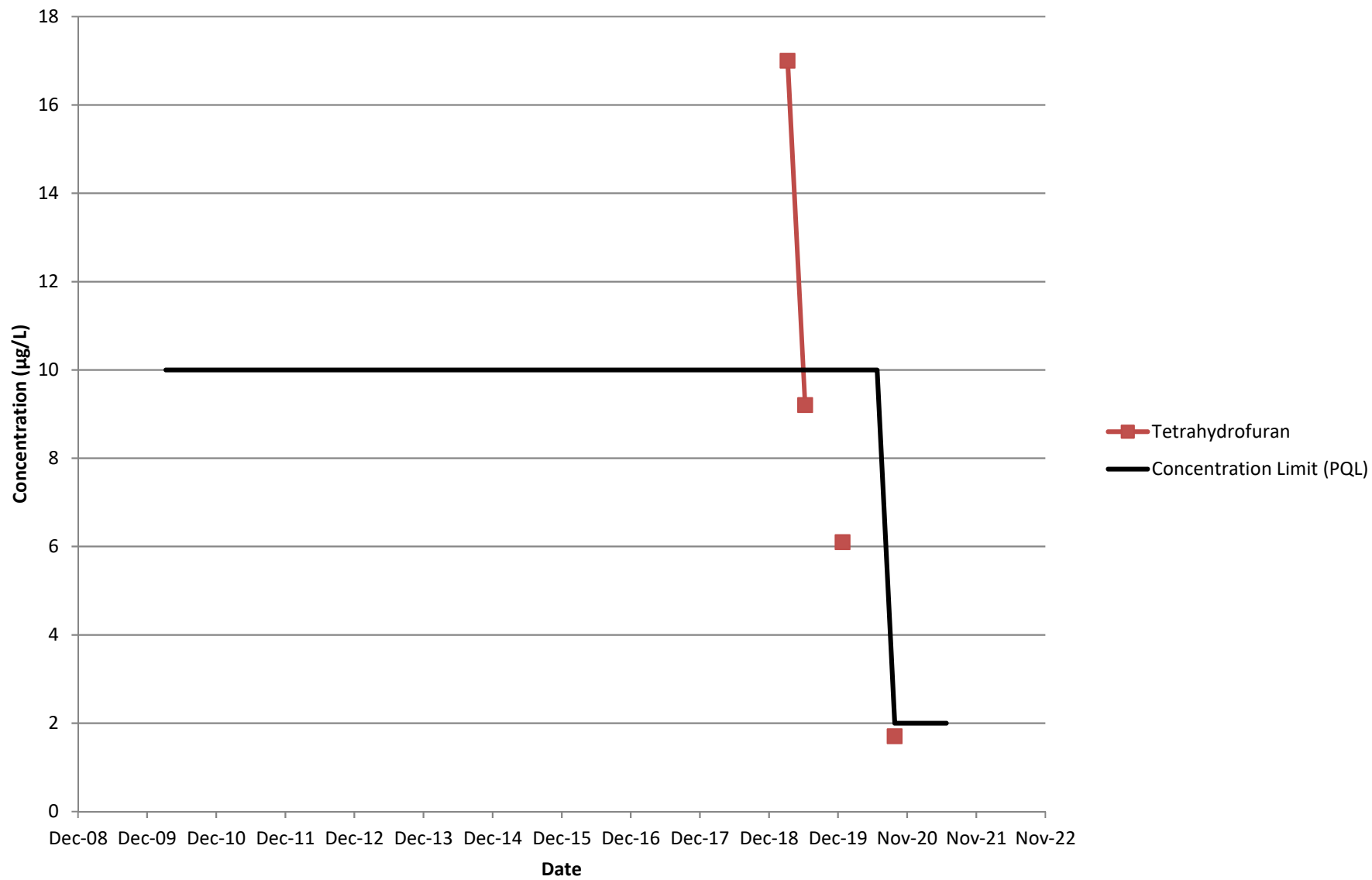
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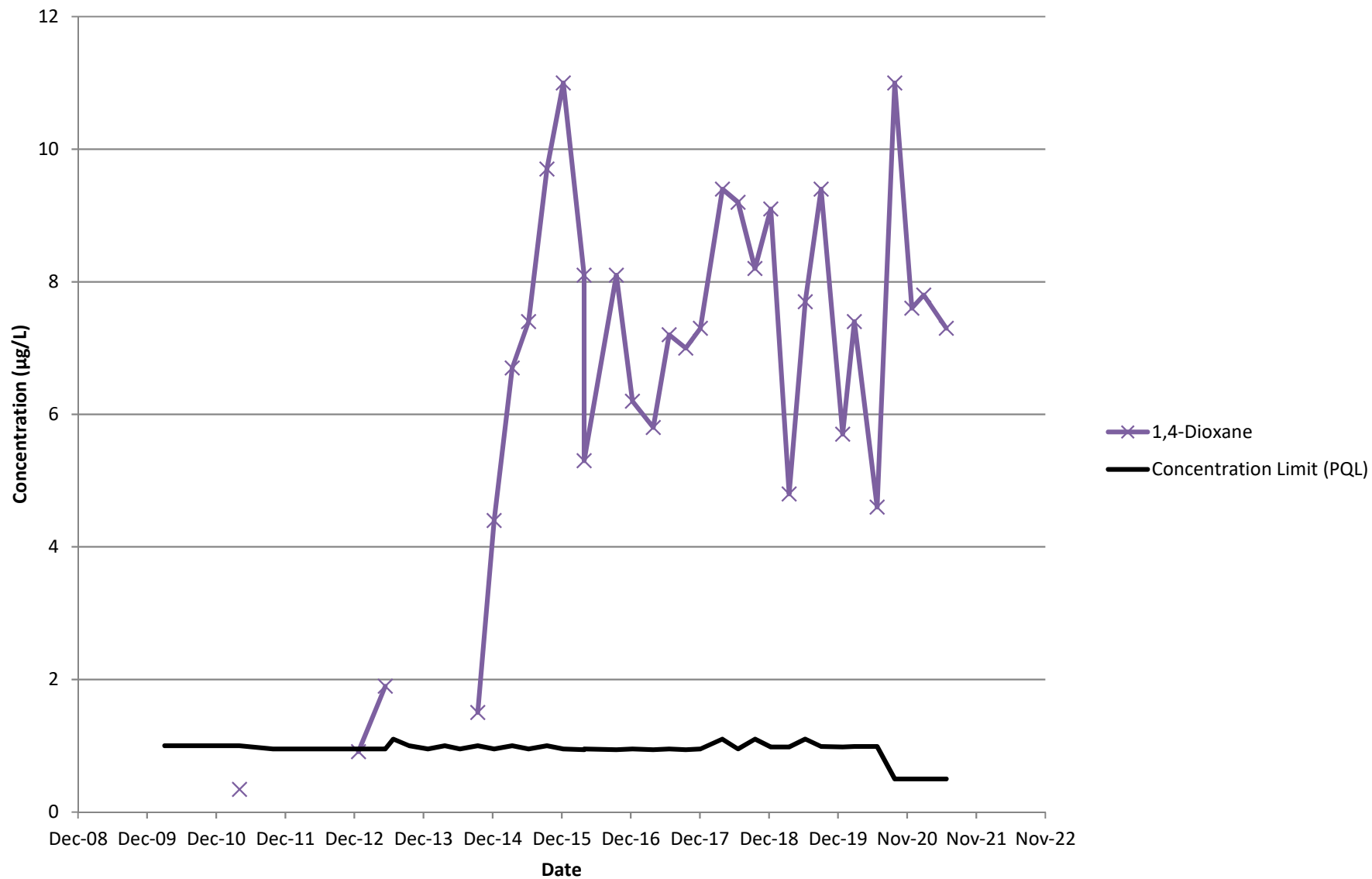
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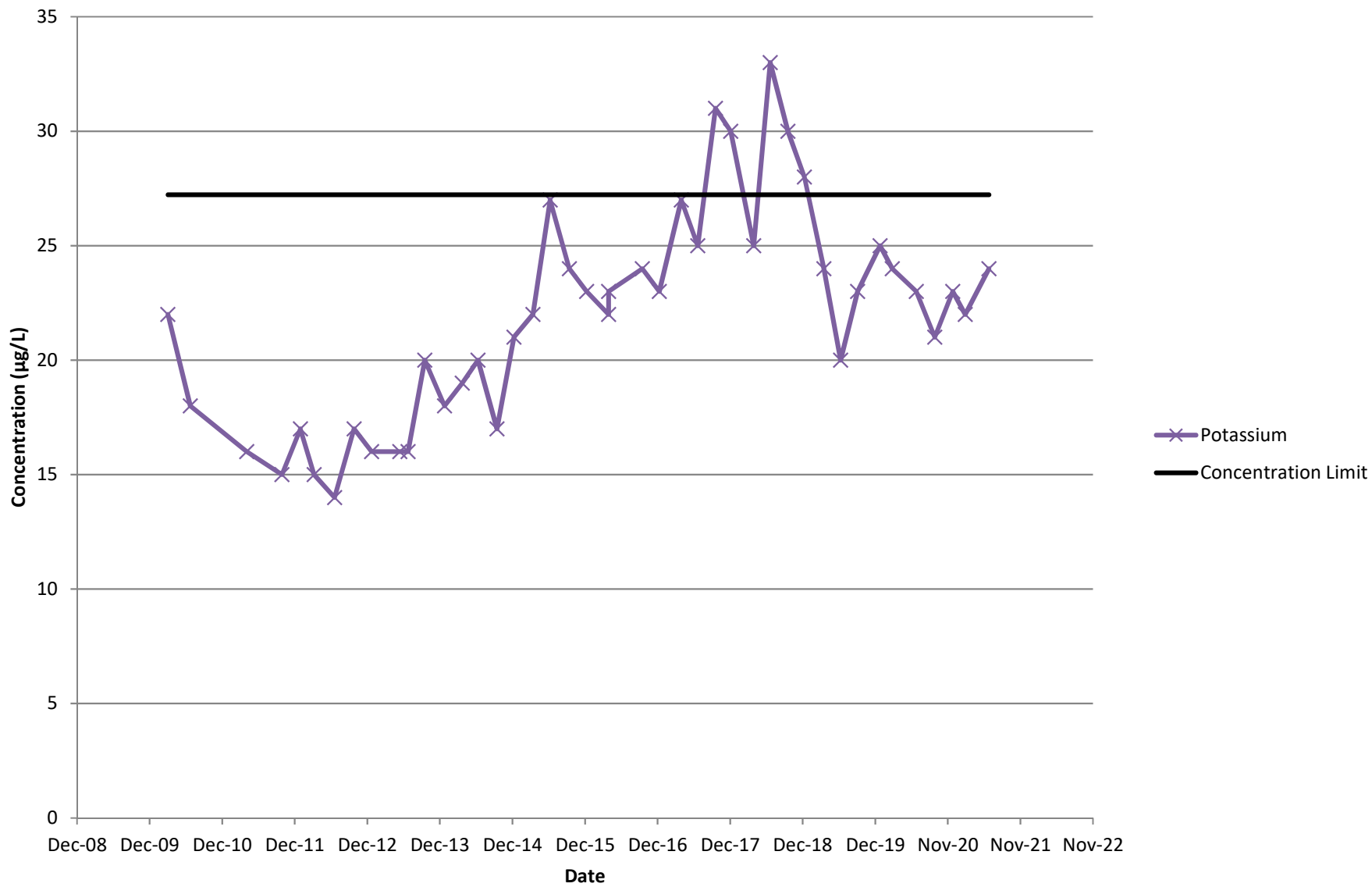
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# Tracking Mode Evaluation Shallow Well MW-13R

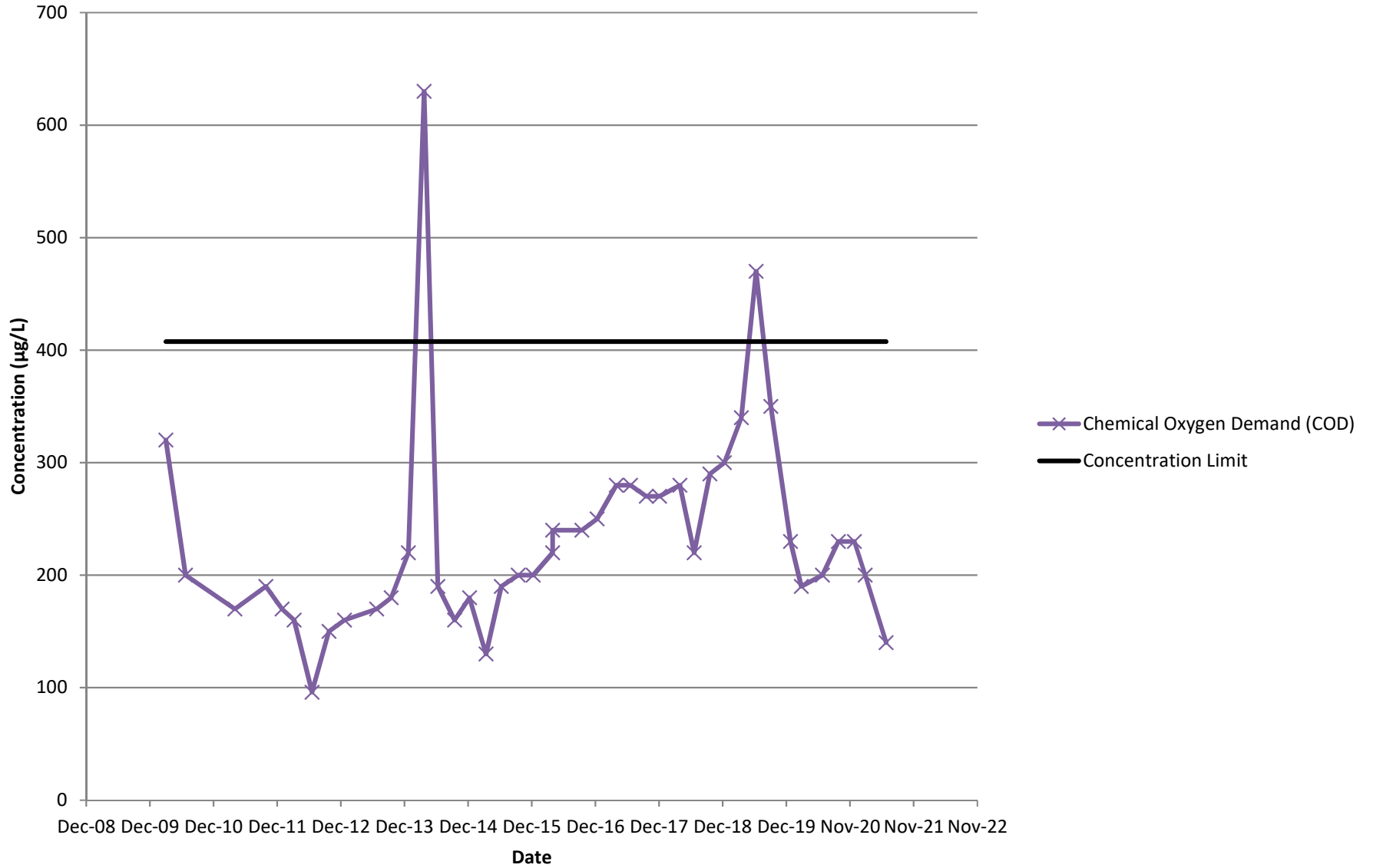


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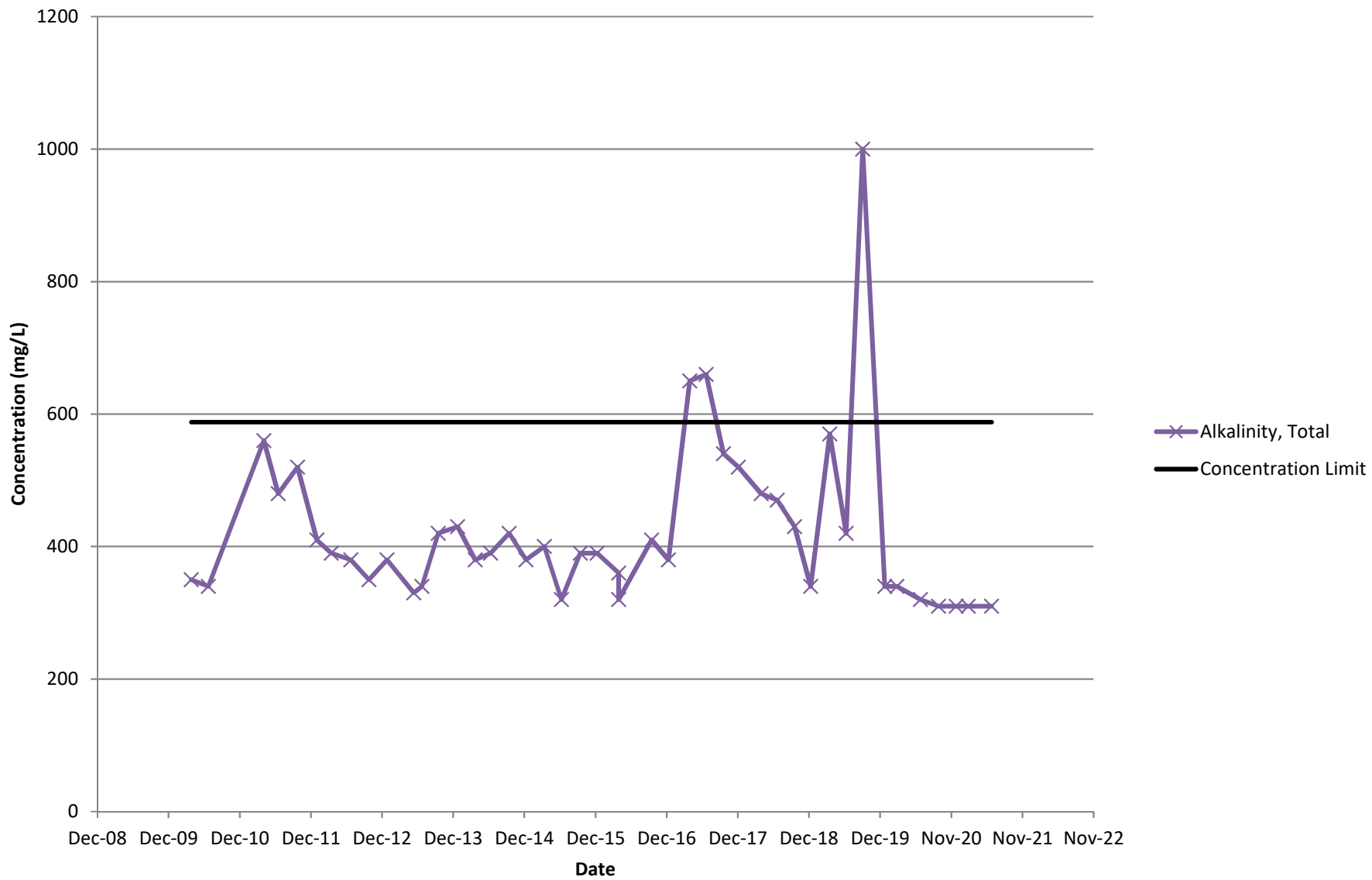


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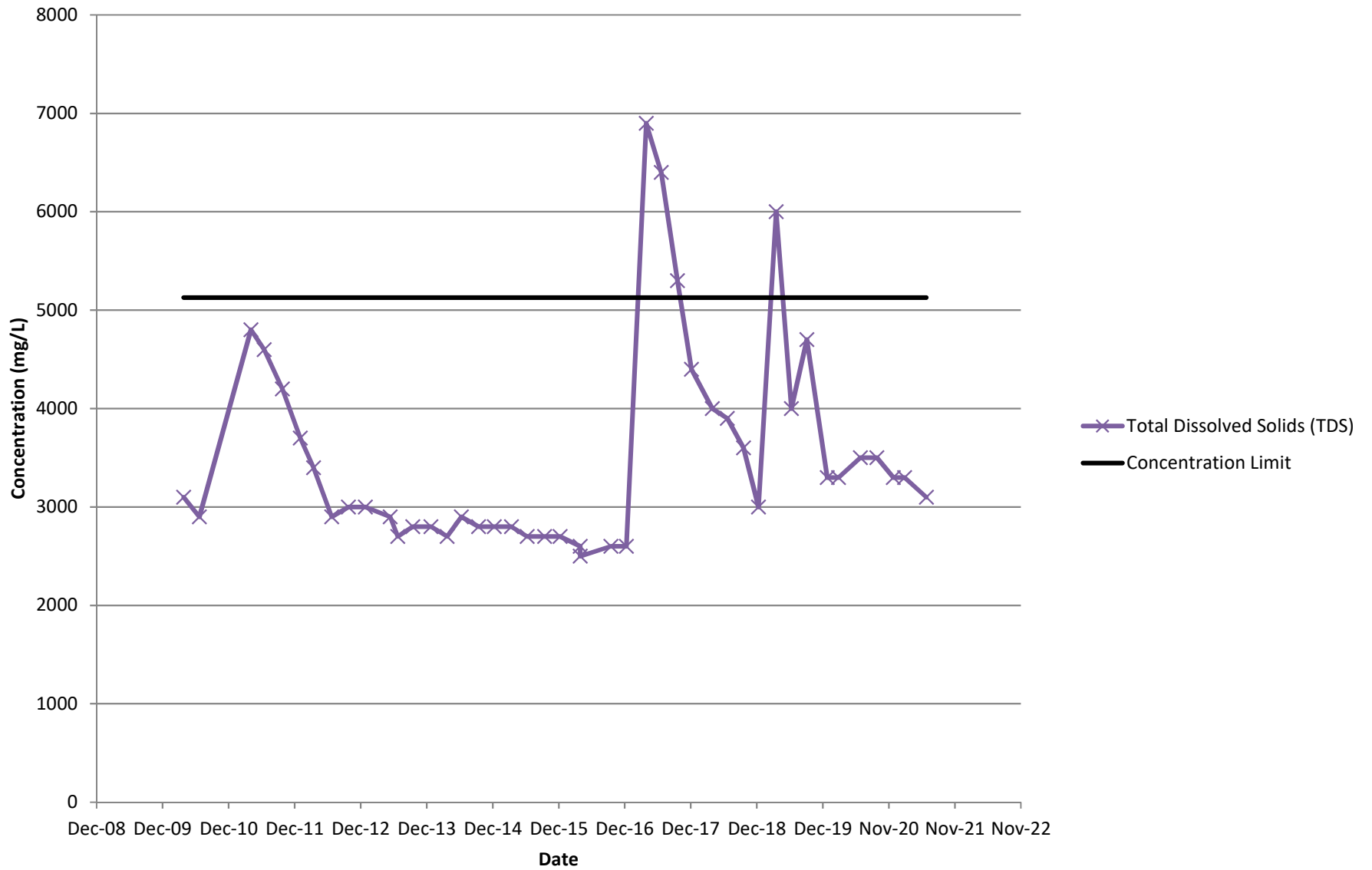




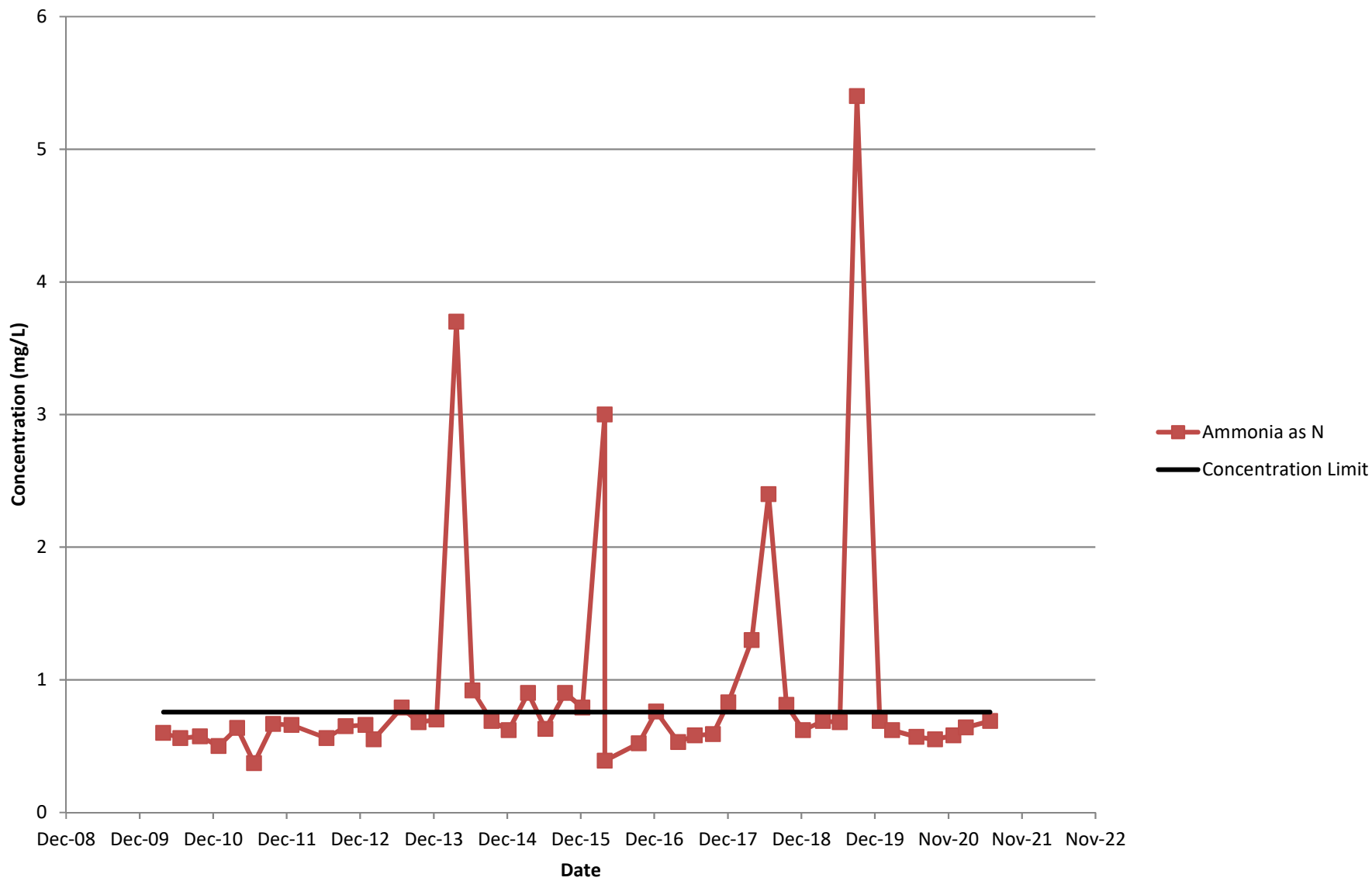
# Tracking Mode Evaluation Shallow Well MW-14



# Tracking Mode Evaluation Shallow Well MW-14

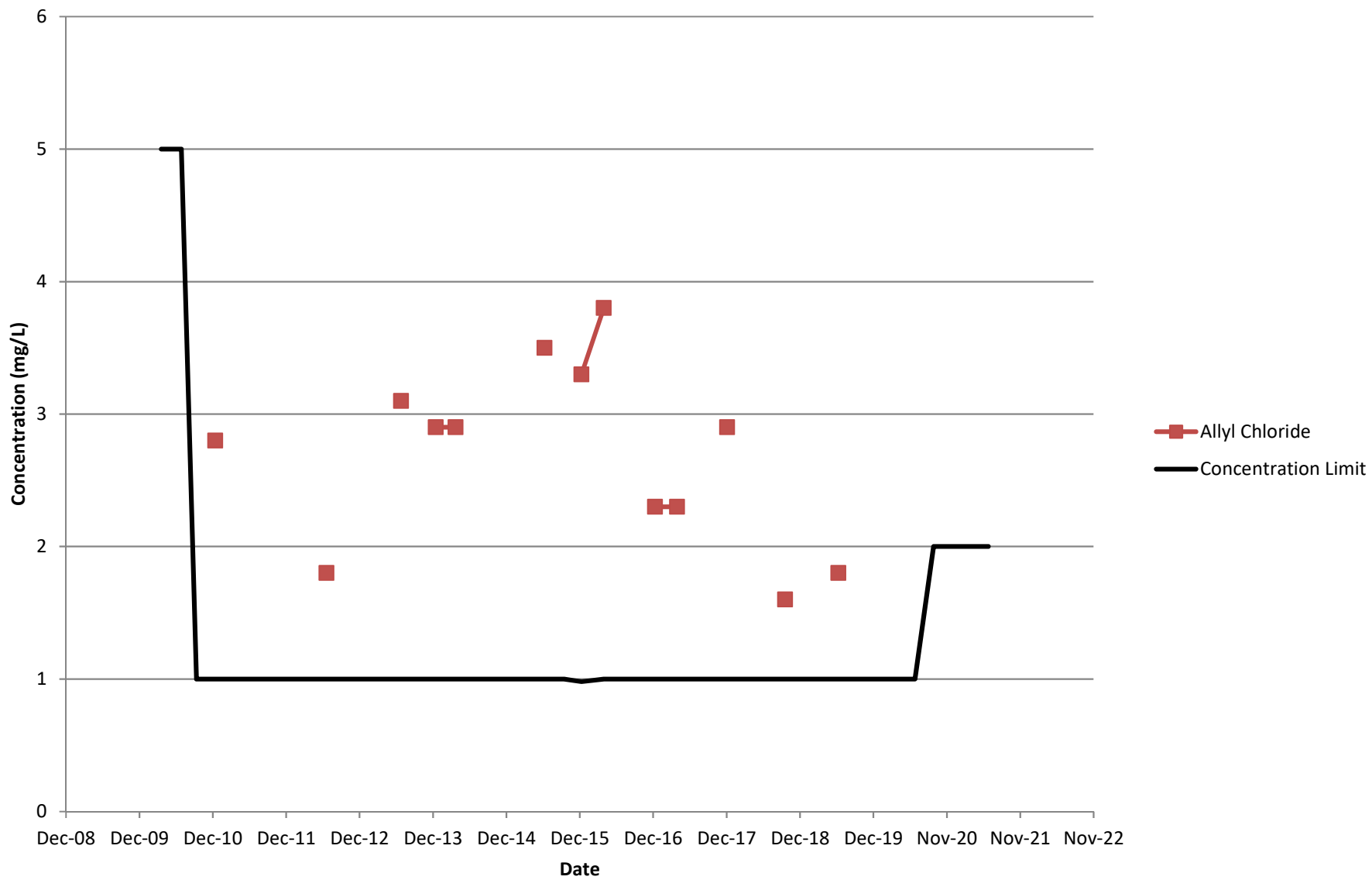


# Tracking Mode Evaluation Deep Well DW-3





# Tracking Mode Evaluation Deep Well DW-5



# Historical Constituent Concentrations Deep Well PZ-4

