

**DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY  
CITY OF CRESCENT CITY  
COUNTY OF DEL NORTE  
STATE OF CALIFORNIA**

**Board of Supervisors Chambers  
Flynn Center 981 H Street Crescent City, CA**

**Regular Session                      Tuesday December 18, 2018                      4:00 PM**

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The Solid Waste Management Authority of the City of Crescent City and the County of Del Norte, State of California, is now meeting in Special Session. Only those items that indicate a specific time will be heard at the assigned time. All items may be taken out of sequence to accommodate public and staff availability.  
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All documents referred to in this agenda are available at the Office of the Del Norte Solid Waste Management Authority at 1700 State Street in Crescent City, between the hours of 8 A.M. and 5 P.M. Monday through Friday OR online at [www.recycledelnorte.ca.gov](http://www.recycledelnorte.ca.gov)  
For more information call 465-1100 or email [dnswwma@recycledelnorte.ca.gov](mailto:dnswwma@recycledelnorte.ca.gov)

**4:00 PM            CALL MEETING TO ORDER / ROLL CALL  
                         PLEDGE OF ALLEGIANCE**

**4:01 PM            PUBLIC COMMENTS:** ANY MEMBER OF THE PUBLIC MAY ADDRESS THE SOLID WASTE MANAGEMENT AUTHORITY ON ANY MATTER ON OR OFF THE AGENDA. After receiving recognition from the Chair, please give your name and address for the record. Comments will be limited to three minutes.

**OPEN SESSION ITEMS:**

**1. CONSENT AGENDA**

- 1.1    Approve minutes, Special Session, Tuesday November 13, 2018. \*\*
- 1.2    Approve payment of claim to Clean Harbors, Inc. for invoice 100257469 in the amount of \$28,696.17 for services related to the annual household hazardous waste event of 29 September 2018. \*\*
- 1.3    Approve payment of claim to Clean Harbors, Inc. for invoices 1002571475 and 1002572409 in the total amount of \$3,029.40 for disposal of expired hand sanitizer on behalf of the Del Norte Office of Emergency Services \*\*
- 1.4    Approve payment of claim to the State Water Resources Control Board for Invoice WD-0142160 in the amount of \$30,625.00 for Annual WDR Permit Fee for the Crescent City Landfill for FY 18/19. \*\*

**END CONSENT AGENDA**

**2.    TREASURER'S REPORTS**

**Agenda items 2.1 through 2.5 are provided for information only**

- 2.1    Director's Report for December 2018. \*\*
- 2.2    Treasurer / Controller Reports for October 2018 \*\*

- 2.3 Claims approved by Director & Treasurer for November 2018 \*\*
- 2.4 Monthly Cash and Charge Reports for November 2018 \*\*
- 2.5 Earned Revenue Comparisons between FY17/18 and FY18/19 \*\*

## **DISCUSSION/ACTION ITEMS**

### **3. LANDFILL POSTCLOSURE**

- 3.1 Review, receive and file "*First-half 2018 Water-Quality Monitoring Report for Crescent City Landfill,*" prepared by Lawrence & Associates. \*\*

### **4. COLLECTIONS FRANCHISE**

- 4.1 Discussion and possible action regarding Collections Change Order 16 authorizing a 6.12% increase to trash and recycling collection rates effective 01 July 2019 due to increased costs to process and market recyclables. \*\*

### **5. TRANSFER STATION – No Items**

### **6. OTHER GENERAL SOLID WASTE AUTHORITY MATTERS**

- 6.1 Discussion and possible action regarding Request for Proposals for Professional Services for Site Identification, Assessment, and Environmental Review for a Small Volume Transfer Station to serve the communities of Smith River, the Tolowa Dee-ni' Nation and Fort Dick \*\*

### **7. CLOSED SESSION ITEMS:**

- 7.1 PUBLIC EMPLOYEE PERFORMANCE EVALUATION  
(Gov't code 54957) Title: Director

### **8. ADJOURNMENT**

Adjourn to the next Regular meeting the Del Norte Solid Waste Management Authority scheduled for 4:00 P.M. Tuesday January 15, 2019 at the Del Norte County Board of Supervisors' Chambers, 981 H Street, Suite 100 in Crescent City.

**\*\* Asterisks next to Agenda Item indicates an associated attachment**

**DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY  
CITY OF CRESCENT CITY  
COUNTY OF DEL NORTE  
STATE OF CALIFORNIA**

**Minutes**

**Board of Supervisors Chambers  
Flynn Center 981 H Street Crescent City, CA**

**Special Session**

**Tuesday November 13, 2018**

**4:00 PM**

**PRESENT:** Commissioner Blake Inscore, Chair  
Commissioner Lori Cowan  
Commissioner Eli Naffah  
Commissioner Jason Greenough  
Director Tedd Ward  
Legal Counsel Martha Rice (Arrived 3:32 P.M.)  
Authority Clerk Kyra Seymour  
Authority Treasurer/Controller Rich Taylor

**ABSENT:** Commissioner Chris Howard, Vice Chair

**ALSO PRESENT:** Jeremy Herber, Recology Del Norte  
David Slagle, CEO Hambro/WSG  
Joel Wallen, Operations Manager Hambro/WSG

**CALL MEETING TO ORDER / ROLL CALL / PLEDGE OF ALLEGIANCE**

Chair Inscore called the meeting to order in special session at 4:01 P.M.

The roll was taken with all commissioners present as listed except for Commissioner Howard.

Chair Inscore led the pledge of allegiance.

**4:02 PM PUBLIC COMMENTS:**

At 4:02 Chair Inscore called for public comments. Eileen Cooper, County resident, commented that the rate increase requested by Recology Del Norte was in her opinion unnecessary, and she suggested that the collection system could be more efficient by less than weekly collection of recyclables.

Chair Inscore mentioned that he would like to have the meeting agendas and minutes more readily available on the

## **OPEN SESSION ITEMS:**

### **1. CONSENT AGENDA**

- 1.1 Approve minutes, Special Session, Tuesday October 16, 2018.
- 1.2 Approve payment of claim 8309 to North Coast Laboratories for invoice 142913 in the amount of \$7,720.00 for laboratory analysis of water samples collected from the Crescent City Landfill.
- 1.3 Approve a budget transfer in the amount of \$222.00.

### **END CONSENT AGENDA**

On a motion by Commissioner Cowan and seconded by Commissioner Greenough and unanimously carried on a polled vote the Del Norte Solid Waste Management Authority approved the items on the consent agenda listed above.

### **2. TREASURER'S REPORTS**

**Agenda items 2.1 through 2.5 are provided for information only**

- 2.1 Director's Report for November 2018.
- 2.2 Treasurer / Controller Reports for September 2018
- 2.3 Claims approved by Director & Treasurer for October 2018
- 2.4 Monthly Cash and Charge Reports for October 2018
- 2.5 Earned Revenue Comparisons between FY17/18 and FY18/19

Director Ward presented the reports listed above, and by consensus these reports were accepted by the Board without revision or correction.

## **DISCUSSION/ACTION ITEMS**

### **3. LANDFILL POSTCLOSURE – No Items**

### **4. COLLECTIONS FRANCHISE**

- 4.1 Discussion and possible action regarding negotiations with Recology Del Norte regarding a possible extension of the Collections Franchise Agreement. \*\*  
**180510, 180516**

Director Ward presented the status of negotiations with Recology Del Norte with respect to their request for a 6.12% rate increase. The Ad Hoc Committee recommended that two Change Orders be adopted, with the first Change Order having the following provisions:

- Recology Del Norte provides documentation confirming either purchase or a secured lease of a facility in Del Norte County where recyclables can be

unloaded, larger pieces of non-recyclable materials removed, and where such recyclables are reloaded and transported to be processed and marketed outside Del Norte County, to the extent processing outside Del Norte is necessary. If such a property is leased, the term of that lease will be at least through the term of the current Collections Franchise Agreement.

- Increase all collection rates based on changes to the Consumer Price Index as described in the Agreement, plus an additional 6.12%, effective 01 July 2019.
- Without additional charges for residential customers subscribed for 20 gallon trash cart collections (beyond the CPI-based increase and the 6.12% increase), Recology Del Norte will be allowed to provide 32 gallon carts to such customers in an effort to reduce contamination and service costs. After this first Change Order is adopted, no new customers will be allowed to sign up for the 20 gallon trash service. In other words, the 20 gallon trash cart will be phased out, but customers who have subscribed to this service will be allowed to continue at the adjusted 20 gallon trash rate.
- Recology will add four (4) additional Authority-allocated dumpsters specifically for cleanup events and activities, or for cleanups on public property ordered, directed, or overseen by a Code Enforcement Officer. These 4 additional dumpsters could not be used for non-cleanup community events (e.g. Fair, Sea Cruise, Find Your Park, etc.) or bin pulls from the Gasquet or Klamath transfer stations. This change will result in a total of 25 Authority-allocated bins annually, provided that at least four such bins are used for cleanup events or activities.
- This Change Order would not be an extension, and would not extend the term of the Collections Franchise Agreement.

After the start of the next fiscal year, staff would continue negotiations with Recology Del Norte for an additional Change Order incorporating the following:

- A rate restructuring that would include a base rate for any collection, plus additional amounts depending on each customer's services. This rate restructuring would eliminate the current situation where residential customers pay based on trash services, with larger recycling carts available for no additional charges.
- Recology Del Norte provides documentation confirming either purchase or a secured lease of a facility in Del Norte County where recyclables can be unloaded, larger pieces of non-recyclable materials removed, and where such recyclables are reloaded and transported to be processed and marketed outside Del Norte County, to the extent processing outside Del Norte is necessary. If such a property is leased, the term of that lease will be at least through the term of the **extended** Collections Franchise Agreement.
- Additional outreach, monitoring and possible enforcement tools to control or reduce non-recyclable materials in recycling and/or yard debris collections.
- Extending the term of the Collections Franchise Agreement by three years.
- Possible adjustment of the percentage charged as Franchise Fees.
- Acceptance that these rate adjustments will be adequate compensation for any changes in recycling markets through the end of the (extended) term of the agreement.

- These changes would be effective starting 01 July 2020.

Discussion followed, with Commissioner Naffah expressing his desire for more public benefits under these Change Orders, specifically expressing hopes that we continue and/or expand incentives for customers to separate yard debris for recovery while keeping rates affordable. Commissioner Cowan suggested that she feels that more drastic changes may be needed to reduce the proportion of trash in the materials collected for recycling. Commissioner Greenough said his main concerns were potential impacts to the rate payers. Chair Inscore expressed his interest in implementing a rate restructuring as soon as it could be negotiated.

Recology Del Norte Operations Manager Jeremy Herber addressed the Board, suggesting that the kinds of topics raised by Commissioner Naffah would likely be addressed under the second Change Order.

Chair Inscore called for public comment. Eileen Cooper, County resident, said she felt the collections were inefficient, and questioned approving a rate increase without efforts to improve efficiency.

Chair Inscore called for a poll of the Board regarding the current direction to staff as described. On a voice vote, Commissioners unanimously supported the direction to staff to develop the first Change Order.

## **5. TRANSFER STATION – No Items**

## **6. OTHER GENERAL SOLID WASTE AUTHORITY MATTERS**

- 6.1 Discussion and possible action regarding draft Guiding Principles for future legislative advocacy. **120502**

Director Ward presented a draft Guiding Principles of legislative advocacy. Discussion followed. By consensus, staff were directed to present a revised draft of these principles for possible adoption at a future meeting, possibly in February 2019.

## **7. ADJOURNMENT**

At 4:56 P.M., Chair Inscore adjourned to the next meeting the Del Norte Solid Waste Management Authority scheduled for 4:00 P.M. Tuesday December 18, 2018 at the Del Norte County Board of Supervisors' Chambers, 981 H Street, Suite 100 in Crescent City.

\_\_\_\_\_  
Blake Inscore, Chair  
Del Norte Solid Waste Management Authority

Date / /

ATTEST:

\_\_\_\_\_  
Eli Naffah, Secretary  
Del Norte Solid Waste Management Authority

Date / /

Submitted:

\_\_\_\_\_  
Kyra Seymour, Clerk  
Del Norte Solid Waste Management Authority

Date / /

The attachment for this item was not ready when this agenda was published.

It will be available at the meeting for review prior to Board action.

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**COPY**

**Vendor** SWRCB Accounting Office  
ATTN Water Quality Fees  
P.O. Box 1888  
Sacramento CA 95812-1888

**Claim ID:** 8338  
Page 1 of 1

**AUDITOR COPY**



**Vendor ID:**   
 *PBSP Expense*  
 *Change of Address*

**Special  
Warrant  
Routing**

<b>Fund</b>	<b>Dept</b>	<b>Line</b>	<b>Proj</b>	<b>Amount</b>	<b>Description</b>
422	421	20301		\$0.00	INDEX 345372, Facility ID 1A77002ODN
				\$30,625.00	INV WD-0142160 Annual Permit Fee 07/01/18-06/3

Total Claim: \$30,625.00

I HEREBY CERTIFY THE ARTICLES OR SERVICES DESCRIBED ON THE ATTACHED INVOICES WERE NECESSARY FOR USE BY THE DEPARTMENT AND HAVE BEEN RECEIVED, AND THAT NO PRIOR CLAIM FOR SAME HAS BEEN

**X**

Signature of Department Head/Authorized Deputy

2/13/2018

Claim Date

1.4



Annual Permit Fees Required by Sections 13260 & 13269  
of the California Water Code

FACILITY ID (WDID): 1A77002ODN  
FACILITY NAME: DEL NORTE COUNTY, CRESCENT CIT  
OLD MILL  
CRESCENT CITY, CA 95531

INVOICE NO: WD-0142160  
BILLING PERIOD: 07/01/18 - 06/30/19  
INVOICE DATE: 11/27/2018  
INDEX NO: 345372



Total Amount Due by  
Thursday, December 27, 2018

\$ 30,625.00

DEL NORTE SOLID WASTE MANAGEME  
TEDD WARD  
1700 STATE STREET  
CRESCENT CITY, CA 95530

12940  
20301

COPY

Invoice details are shown on the back

RECEIVED  
NOV 30 2018

DNSWMA

STATE WATER RESOURCES CONTROL BOARD  
Annual Permit Fee

Facility ID: 1A77002ODN

Billing Period: 07/01/18 - 06/30/19

Invoice No: WD-0142160

Amount Due: \$ 30,625.00

Due By: Thursday, December 27, 2018

PLEASE REMIT YOUR PAYMENT ON OR BEFORE THE DUE DATE SHOWN ABOVE. LATE PAYMENT COULD RESULT IN PENALTIES UNDER PROVISIONS OF THE WATER CODE SECTION 13261. THESE ACTIONS COULD INCLUDE DAILY PENALTIES IN ADDITION TO YOUR FEE OR OTHER ACTIONS DEEMED APPROPRIATE BY THE REGIONAL BOARD.

Make your check payable to State Water Resources Control Board

If you have any questions about this invoice, please call the Water Board at 707-576-2656.



Retain this portion for your records

Please detach and return this portion with your payment

CHECK HERE FOR ADDRESS CORRECTION ON THE BACK

INVOICE NO: WD-0142160

INDEX NO: 345372

(Please print the above number on check or money order)

DEL NORTE SOLID WASTE MANAGEME  
TEDD WARD  
1700 STATE STREET  
CRESCENT CITY, CA 95530  
(707) 465-1100

SWRCB  
PO BOX 1888  
SACRAMENTO, CA 95812-1888

AMOUNT DUE: \$30,625.00  
BILLING PERIOD: 07/01/18 - 06/30/19  
DUE BY: 12/27/18  
FACILITY ID (WDID): 1A77002ODN  
FACILITY NAME: DEL NORTE COUNTY, CRESCENT CIT  
OLD MILL  
CRESCENT CITY, CA 95531

# INVOICE DETAILS

FACILITY ID (WDID): 1A77002ODN  
ORDER NO: 97-090

INVOICE NO: WD-0142160  
BILLING PERIOD: 07/01/18 - 06/30/19  
REGION: 1

DESCRIPTION	AMOUNT
59 LANDFILL Fee Basis: Threat/Complexity 2A	30,625.00
<b>TOTAL AMOUNT DUE</b>	<b>\$ 30,625.00</b>

COPY

If you have any questions about this invoice, please call  
the Water Board at 707-576-2656.

or you may send an email to Lori.Foster@waterboards.ca.gov

For payment status of your invoice, please go to the "Stormwater and Wastewater permit Fee Invoice Information" link at

<http://infofees.waterboards.ca.gov/FeeInfo/DischargerInvoice.aspx>

Please allow 10 business days after mailing for your payment to be posted to the database.

### BILLING ADDRESS CORRECTIONS

Please print the new billing address information in the space provided below

Please check box if the facility has changed ownership.

FACILITY ID (WDID): 1A77002ODN DEL NORTE COUNTY, CRESCENT CIT

**BILLING NAME:** [Grid of 20 empty boxes]

**CONTACT PERSON:** [Grid of 20 empty boxes]

**STREET:** [Grid of 20 empty boxes]

**CITY:** [Grid of 20 empty boxes]

**STATE:** [Grid of 2 empty boxes] **ZIP:** [Grid of 5 empty boxes] - [Grid of 4 empty boxes]

**PHONE:** ( [Grid of 3 empty boxes] ) [Grid of 3 empty boxes] - [Grid of 4 empty boxes]

**EMAIL ADDRESS:** [Grid of 20 empty boxes]

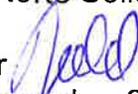


# Del Norte Solid Waste Management Authority

1700 State Street, Crescent City, CA 95531  
Phone (707) 465-1100 Fax (707) 465-1300  
www.recycledelnorte.ca.gov

The Authority's mission is the management of Del Norte County solid waste and recyclable material in an environmentally sound, cost effective, efficient and safe manner while ensuring 100% regulatory compliance with law.

## Director's Report

Date: 14 December 2018  
To: Commissioners of the Del Norte Solid Waste Management Authority  
From: Tedd Ward, M.S. – Director   
Reporting Period: 10 November 2018 – 14 December 2018  
Attachments: Recology Del Norte reports on recycling contamination  
Coupon for Treecycling and 'Give More, Waste Less' holiday ideas  
  
File Number: 231501 – Authority Work Plans

**Summary:** The Del Norte Solid Waste Management Authority continues to operate the Klamath, Gasquet and Del Norte County Transfer Stations and to provide required monitoring, accounting and reports to overseeing agencies. Authority staff provide these services without any financial support from the City of Crescent City or the County of Del Norte, and without receiving a penny of taxes. The rates charged at Authority-managed facilities continue to be lower than other similar facilities in Humboldt and Curry Counties.

Authority facilities will be closed on both Christmas (December 25<sup>th</sup>) and New Year's Day (January 1<sup>st</sup>).

**Landfill Postclosure:** **Consent Agenda Items 1.2 and 1.3** are invoices from Clean Harbors for their services associated with the Household Hazardous Waste collection event. Programs Coordinator Kyra Seymour is still reviewing these invoices. The smaller invoice was for disposal of expired hand sanitizer from the Del Norte Office of Emergency Services. After invoice review, staff plan on paying this invoice and seeking reimbursement from the DNOES through an inter-departmental transfer.

**Consent Agenda Item 1.4** is a claim to pay the annual Waste Discharge Requirements permit fee for the Crescent City Landfill in the amount of \$30,625. This is a 14.4% increase over last year's amount of \$26,766. As this fee is set in connection with the budget demands of the Regional Water Quality Control Board, the fees were reduced slightly last year. This year the fee returned to the \$30,625 amount which had been in place since FY 2014/15, and which had been the amount for the '2A' permit fee for four of the five previous fiscal years.

2.1



A few years ago, Authority staff appealed for a reduction in the threat/complexity rating for the landfill that is associated with this annual fee. Had that effort to reduce the threat/complexity rating reduced not been successful, this fee would have been \$70,781 this year. Since the Regional Water Quality Control Board approved that reduction starting with FY 15/16, the Authority has saved over \$147,000 compared to what the permit fees would have been.

**Agenda item 3.1** is the required semi-annual report to the Regional Water Quality Control Board prepared by Lawrence & Associates summarizing monitoring at the Crescent City Landfill.

During this period, staff worked with County Engineer Jim Barnts to revise and submit the Corrective Action Plan and related cost estimates for non-water related releases at the Crescent City Landfill. This was a necessary step in the 5-year permit review for this facility, and it needed to be completed by a registered civil engineer.

**Finances:** Authority staff have submitted all requested information to Harshwal & Company and completed interviews related to the external audit of the Authority's finances for FY 17/18. Staff anticipate receiving a draft of the audit report and providing responses in the coming months. No new issues were identified during interviews, and staff anticipate this audit report will have findings similar to findings from prior years.

**Collections Franchise:** Recology Del Norte is also offering Holiday Tree Collection for trees six feet in length or shorter. These will be collected through January 31 for no additional charge from households subscribed for trash collections, and they won't count as a bulky item.

**Agenda Item 4.1** is Collections Change Order 16 with Recology Del Norte, intended to implement the 6.12% increase as requested by Recology Del Norte. On 19 November, Authority Treasurer Richard Taylor and Director Ward met with Tom Norris and Jeremy Herber to review the justification for their requested 6.12% increase in consideration for their increased costs to sort, transfer, transport, process and market recyclables collected under the Franchise Collections Agreement with Recology Del Norte.

The additional costs included costs to lease and pay for the electrical expenses at the former Julindra building, which is being used to unload and reload recyclables into larger trucks to be transferred to the Recology Humboldt in Samoa where those materials are sorted and processed. The estimates for these expenses were confirmed to be 0.91% of the projected revenue before any CPI-based rate increase.

The largest increase in expense requested is for transport to and processing at the

Recology Humboldt facility at \$88.91 per ton at the Recology Humboldt facility. That is the rate negotiated between the Humboldt Waste Management Authority and Recology Humboldt. These additional expenses were confirmed to be 5.21% of the projected revenue before any CPI-based rate increase.

Because these expenses are associated with costs to sort recyclables, and recycling collection services are often coupled with trash collections, Authority staff feel these rate increases should not be applied to the fees for brush collections.

Though these cost increases are significant, these costs do not include the cost of baling equipment purchased from Julindra which are used in processing corrugated cardboard, the monthly cost of a loader and the employee who drives it to load recyclables onto transfer trailers, or the lease and electrical expenses paid to date since the closure of Julindra. If those additional costs were included, the rate increase request would have been for an increase of 7.81%.

Finally, these cost estimates do not include payments made to Julindra prior to closure, payments for a temporary facility used at Hambro Forest Products, and the cost to purchase an additional 450 carts in a 30 gallon size to replace the 20 gallon carts.

**Facilities:** **Agenda Item 6.1** is the Request for Proposals that was issued for professional services to assist the Board in identifying and assessing potential sites for a small volume transfer station to serve the northern portions of Del Norte County. Responses are due on 28 January 2019, and staff anticipate selection of a consultant at the February 2019 Authority meeting.

Hambro/WSG and the Authority are again offering Free Holiday Tree Recycling from December 26 - through Thursday Jan 31, 2019. No stands, tinsel or decorations. Light flocking OK.

**Outreach:** On November 15<sup>th</sup>, Director Ward made a presentation to evening Rotary, discussing state mandatory commercial recycling requirements among other topics. On December 14<sup>th</sup>, Director Ward and Programs Coordinator Seymour recorded another episode of Rethinking Recycling, a monthly half-hour program on KFUG community radio.

**Staffing:** During this period, Programs Coordinator Seymour received her certificate for completing the Sustainable Resource Management Program from GreenEducation.US. Refuse Site Attendant Michael McLellan was made a permanent employee.

## Tedd Ward

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**From:** Jeremy Herber <JHerber@recology.com>  
**Sent:** Monday, December 10, 2018 7:26 AM  
**To:** Tedd Ward  
**Subject:** FW: Recology Recycling Weekly Update for December 2nd, 2018 to December 8th, 2018

**Tedd,**

We are continuing to collect approximately 75% - 80% of the recyclable volume in Del Norte. Recycling collection remains in the area of 13%-18% contamination depending on the locations serviced during the week.

We are still evaluating the recycling loads daily, however we are seeing levels of contamination remain stagnant in some curbside collection areas with some exceptions. Commercial collection routes have improved the most but are leveling off similar to the curbside routes.

The Smith River Community bins remain at a high contamination level around 20%-40%. Community bins tend to be used as a dumping ground for household trash and oversize bulky items as pictures were recently sent to you.

The routes that are consistently being processed are the following:

- 131 Residential Curbside Recycling
- 132 Residential Curbside Recycling
- 133 Commercial Recycling

Gasquet and Klamath transfer stations are being processed when full. Both State street bins are being processed as recycling.

**Both Smith river and Fort Dick recycling containers are being processed when not extremely contaminated.**

70% Streetside recycling containers are being recycled unless extremely contaminated with food waste or other dirty items.

Bettendorf's trailer has the ability to carry 136 Yards of recyclables. Our average weight of material being loaded On the truck as recyclables is approximately **10 to 11 tons each load.**

**Last week we delivered 3 loads to Recology Humboldt (Somoa Facility)**

Most of the cardboard is being removed from the recycling loads and processed in Del Norte County.

Best Regards,

**Jeremy Herber**  
General Manager

**Recology Del Norte™** | P.O. Box 1933 | Crescent City, CA 95531  
T: 707.464.4181 | [Jherber@recology.com](mailto:Jherber@recology.com)



*Please consider the environment before you print this email.*

## Tedd Ward

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**From:** Jeremy Herber <JHerber@recology.com>  
**Sent:** Wednesday, December 5, 2018 4:29 PM  
**To:** Tedd Ward  
**Subject:** FW: Recology Recycling Weekly Update for November 25th, 2018 to December 1st, 2018

**Tedd,**

We are continuing to collect approximately 75% - 80% of the recyclable volume in Del Norte. Recycling collection remains in the area of 13%-18% contamination depending on the locations serviced during the week.

We are still evaluating the recycling loads daily, however we are seeing levels of contamination remain stagnant in some curbside collection areas with some exceptions.

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**Jeremy Herber**

General Manager

**Recology Del Norte™** | P.O. Box 1933 | Crescent City, CA 95531

T: 707.464.4181 | [Jherber@recology.com](mailto:Jherber@recology.com)



*Please consider the environment before you print this email.*

## Tedd Ward

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**From:** Jeremy Herber <JHerber@recology.com>  
**Sent:** Monday, November 26, 2018 1:23 PM  
**To:** Tedd Ward  
**Subject:** FW: Recology Recycling Weekly Update for November 18th, 2018 to November 24th, 2018

**Tedd,**

We are continuing to collect approximately 75% - 80% of the recyclable volume in Del Norte. Recycling collection remains in the area of 13%-18% contamination depending on the locations serviced during the week.

We are still evaluating the recycling loads daily, however we are seeing levels of contamination remain stagnant in some curbside collection areas with some exceptions.

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Best Regards,

**Jeremy Herber**

General Manager

**Recology Del Norte™** | P.O. Box 1933 | Crescent City, CA 95531

T: 707.464.4181 | [Jherber@recology.com](mailto:Jherber@recology.com)



*Please consider the environment before you print this email.*

## Tedd Ward

---

**From:** Jeremy Herber <JHerber@recology.com>  
**Sent:** Monday, November 19, 2018 7:41 AM  
**To:** Tedd Ward  
**Subject:** FW: Recology Recycling Weekly Update for November 11th, 2018 to November 17th, 2018

Tedd,

We are continuing to collect approximately 75% - 80% of the recyclable volume in Del Norte. Recycling collection remains in the area of 13%-18% contamination depending on the locations serviced during the week.

We are still evaluating the recycling loads daily, however we are seeing levels of contamination remain stagnant in some curbside collection areas with some exceptions.

Commercial collection routes have improved the most but are leveling off similar to the curbside routes.

The Smith River Community bins remain at a high contamination level around 20%-40%.

Community bins tend to be used as a dumping ground for household trash and oversize bulky items as pictures were recently sent to you.

The routes that are consistently being processed are the following:

- 131 Residential Curbside Recycling
- 132 Residential Curbside Recycling
- 133 Commercial Recycling

Gasquet and Klamath transfer stations are being processed when full.

Both State street bins are being processed as recycling.

**Both Smith river and Fort Dick recycling containers are being processed when not extremely contaminated.**

70% Streetside recycling containers are being recycled unless extremely contaminated with food waste or other dirty items.

Bettendorf's trailer has the ability to carry 136 Yards of recyclables. Our average weight of material being loaded on the truck as recyclables is approximately **10 to 11 tons each load.**

**Last week we delivered 3 loads to Recology Humboldt (Somoa Facility)**

Most of the cardboard is being removed from the recycling loads and processed in Del Norte County.

Best Regards,

**Jeremy Herber**

General Manager

**Recology Del Norte™** | P.O. Box 1933 | Crescent City, CA 95531

T: 707.464.4181 | [Jherber@recology.com](mailto:Jherber@recology.com)



*Please consider the environment before you print this email.*

# 'Tis the season for treecycling

The Del Norte Solid Waste Management Authority and Hambro/W5G are sponsoring a Christmas tree recycling program. Christmas trees will be accepted at the Del Norte County Transfer Station at 1700 State Street. This offer is limited to one free holiday tree per Del Norte family. Recology Del Norte residential and multi-family customers can have a tree collected for free by calling 464-4181. This treecycling program ends Thursday, January 31, 2019.



# FREE!



[www.recycledelnorte.ca.gov](http://www.recycledelnorte.ca.gov)

## for more information, call 465-1100

Trees with decorations, tinsel, or stands will not be accepted, but light flocking is OK.

## This Holiday Season Give More, Waste Less & Save \$\$

### Gifts that Trim Your Waste line:

-  Make crafts, jams or baked goods as gifts.
-  Give your time for child care, painting, housecleaning, lawn mowing, repairs or photography.
-  Consider reusable and more durable products, using solar power or rechargeable batteries.

### Wrapping with Less Waste:

-  Wrap one gift inside another or in scrap fabric. Reuse a tin box or gift bag.
-  Gift wrap with newspaper comics or sport sections.
-  Tie with yarn, fabric, netting or ribbon.
-  Buy wrapping paper with recycled content.

### After the celebrations:

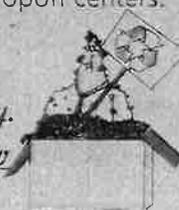
-  Save wrapping paper and ribbons for reuse later.
-  Bag packing peanuts for reuse.
-  Flatten corrugated cardboard for recycling at curbside or at community dropoff centers.



*Happy Holidays from the Del Norte Solid Waste Management Authority.*

*For more information, call 465-1100 or visit: [www.recycledelnorte.ca.gov](http://www.recycledelnorte.ca.gov)*

Printed on 30% post-consumer recycled paper



Solid Waste  
**Balance Sheet**  
 October 31, 2018

**Unaudited**

**ASSETS**

422 010 00000	Cash Solid Waste	1,022,610.72
422 010 00300	Imprest Cash	3,500.00
422 010 00500	I Bank Loan Deposit Held by County	198,177.17
422 010 01100	Accounts Receivable	2,755.31
422 010 03200	Land	493,000.00
422 010 03300	Transfer Station	3,266,990.64
422 010 03400	Equipment	158,443.55
422 010 03410	Buildings & Improvements	141,638.89
422 010 03440	Accum Depr Equipment	(158,444.00)
422 010 03450	Accum Depr Bldg & Improv	(215,054.00)
422 010 03460	Accum Depr Transfer Station	(1,000,552.00)
	Total Assets	<u><u>3,913,066.28</u></u>

**LIABILITIES AND FUND EQUITY**

422 010 05105	Sales Tax Payable	30.00
422 010 05210	Sublease Payable	2,513,212.50
422 010 05300	Compensated Absences Payable	57,426.74
422 010 05400	Deferred Revenue	1,934.31
422 010 05500	Post Closure Liability	2,046,994.00
422 010 05600	Net OPEB Obligation	423,573.00
422 010 07100	Fund Balance	(1,816,777.31)
422 010 09600	Investment in Capital Assets net of related debt	671,843.00
	Revenue	1,093,694.05
	Expenditure	(1,078,864.01)
	Total Liabilities and Fund Equity	<u><u>3,913,066.28</u></u>

RECEIVED  
 NOV 21 2018

DNSWMA

**Del Norte Solid Waste Management Authority**  
**A/R Aging Summary**  
**As of December 1, 2018**

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Affordable Home & Rental Rep.	21.06	0.00	0.00	0.00	0.00	21.06
Agricultural Commission	15.50	0.00	0.00	0.00	0.00	15.50
Agricultural Commission(solid waste only)	75.72	47.12	22.72	0.00	0.00	145.56
Albers Seafood	0.00	119.94	0.00	0.00	0.00	119.94
Alexandre EcoDairy Farms	639.38	477.04	0.00	0.00	0.00	1,116.42
Babich Construction	36.52	0.00	0.00	0.00	0.00	36.52
Bart Kast Builders	151.35	0.00	0.00	0.00	0.00	151.35
Bayside Excavation	6,145.62	0.00	0.00	0.00	0.00	6,145.62
Benner Mini Storage	540.63	0.00	0.00	0.00	0.00	540.63
Borges Dairy	130.23	113.58	0.00	0.00	0.00	243.81
Brown, Eileen	613.32	0.00	0.00	0.00	0.00	613.32
Cal-Fire	0.00	0.00	50.01	0.00	0.00	50.01
Cal-Ore LIFE FLIGHT	57.55	0.00	0.00	0.00	0.00	57.55
Cal-Trans	77.69	0.00	35.91	0.00	599.28	712.88
California Auto Image	1,045.32	0.00	0.00	0.00	0.00	1,045.32
California Construction Co.	31.84	0.00	0.00	0.00	0.00	31.84
California Dept. of Fish & Wildlife	0.00	0.00	0.01	0.00	0.00	0.01
California Dept. Parks & Rec.	553.45	1,067.18	1,028.86	0.00	0.00	2,649.49
Castlerock Countertop's	233.22	0.00	0.00	0.00	0.00	233.22
Cetnar Construction Inc.	130.44	833.60	0.00	0.00	0.00	964.04
City of Crescent City.	217.62	738.08	0.00	0.00	0.00	955.70
Cornerstone Assembly of God	116.62	93.89	0.00	0.00	0.00	210.51
Crescent Ace Hardware.	390.72	0.00	0.00	0.00	0.00	390.72
Crescent City KOA	36.52	0.00	0.00	0.00	0.00	36.52
Crescent Fire Protection Dist.	22.42	17.52	0.00	0.00	0.00	39.94
Crescent Senior Estates	361.94	0.00	0.00	0.00	0.00	361.94
Danco Builders	1,225.13	0.00	0.00	0.00	0.00	1,225.13
Del Norte Ambulance	87.83	0.00	0.00	0.00	0.00	87.83
Del Norte County Road Dept.	23.25	0.00	0.00	0.00	0.00	23.25
Del Norte Office Supply.	7.75	0.00	0.00	0.00	0.00	7.75
Del Norte Parks & Recreation	1,698.23	0.00	0.00	0.00	0.00	1,698.23
Del Norte Realty	208.98	595.87	0.00	0.00	0.00	804.85
Del Norte Roofing	0.00	68.15	0.00	0.00	0.00	68.15
Del Norte Senior Center	132.04	153.16	0.00	0.00	0.00	285.20
Del Norte Solid Waste Mngmt	34.98	0.00	0.00	0.00	0.00	34.98
Del Norte Solid Waste OOPS	20.34	0.00	0.00	0.00	0.00	20.34
Del Norte Triplicate/WesternCom	27.26	0.00	0.00	0.00	0.00	27.26
DN Unified School District	427.59	0.00	0.00	0.00	0.00	427.59
DNC Building Maintenance	100.14	0.00	0.00	0.00	0.00	100.14
DNC Public Nuisance Abatement	1,449.94	255.97	0.00	0.00	0.00	1,705.91
Driftwood Apartments LLC	31.80	0.00	0.00	0.00	0.00	31.80
Elk Valley Casino	19.69	0.00	0.00	0.00	0.00	19.69
Elk Valley Rancheria	219.95	0.00	0.00	0.00	0.00	219.95
Fashion Blacksmith	58.32	0.00	0.00	0.00	0.00	58.32
G. H. Outreach	206.26	0.00	0.00	0.00	0.00	206.26
Gasquet Mobile Home Park	0.00	78.08	0.00	0.00	0.00	78.08
GR Construction	95.40	0.00	0.00	0.00	0.00	95.40
Green Scapes	7.96	207.04	0.00	0.00	0.00	215.00
Griffin's Furniture Outlet	130.54	0.00	0.00	0.00	0.00	130.54
Hambro/Waste Solutions Group	139.61	0.00	0.00	0.00	0.00	139.61
Hank's Hauling	67.25	0.00	0.00	0.00	0.00	67.25
Hartley Construction	194.02	334.68	0.00	0.00	0.00	528.70
HASP / Jordan Recovery Centers	101.38	87.83	0.00	0.00	0.00	189.21
Hemmingsen Contracting Company	15.14	3,559.11	0.00	0.00	0.00	3,574.25
Humboldt Moving & Storage	51.49	0.00	0.00	0.00	0.00	51.49
John Pappas Drywall	212.03	0.00	0.00	0.00	0.00	212.03
Kays Yard Service	2.65	0.00	0.00	0.00	0.00	2.65
Kirkland's Lawn & Yard Service	1,285.25	0.00	0.00	0.00	0.00	1,285.25
Kraft, Tom & Patti	119.63	0.00	0.00	0.00	0.00	119.63
Larson Services	22.72	0.00	0.00	0.00	0.00	22.72
Loren Stonebrink Const	0.00	344.42	0.00	0.00	0.00	344.42
Malloroy Construction	9.00	0.00	0.00	0.00	0.00	9.00
Mastaloudis Homes Inc.	64.16	60.58	96.47	0.00	0.00	221.21
McMurray & Sons, Inc.	318.03	0.00	0.00	0.00	0.00	318.03
Ming Tree Real Estate	22.89	0.00	0.00	0.00	0.00	22.89
Mow Blow and Go	24.62	0.00	0.00	0.00	0.00	24.62

**Del Norte Solid Waste Management Authority**  
**A/R Aging Summary**  
As of December 1, 2018

	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL
Murray Construction	77.60	0.00	0.00	0.00	0.00	77.60
New Dawn Support Services	291.33	0.00	0.00	0.00	0.00	291.33
North Coast Properties	10.93	0.00	0.00	0.00	0.00	10.93
North Woods Realty	121.88	0.00	0.00	0.00	0.00	121.88
Northridge Electric	223.88	0.00	0.00	0.00	0.00	223.88
Pacific Northwest Physical Therapy**HOLD*	0.05	0.91	0.00	9.09	0.00	10.05
Pacific Ocean Park	93.31	1,141.26	933.08	0.00	0.00	2,167.65
PALM Industries, Inc.	69.66	162.04	0.00	0.00	0.00	231.70
Parkway Feed	174.16	0.00	0.00	0.00	0.00	174.16
Pelican Bay Evangelical Free Church	7.75	10.60	0.00	0.00	0.00	18.35
Pelican Bay Roofing Co.	0.00	166.59	0.00	0.00	0.00	166.59
Plunkett's Family Painting	75.73	74.61	0.00	0.00	0.00	150.34
Positive Solutions	769.92	0.00	0.00	0.00	0.00	769.92
Ray's Mobile Home Service	122.25	306.09	248.37	0.00	0.00	676.71
Recology Del Norte (Franchise)	114,288.96	0.00	0.00	0.00	0.00	114,288.96
Recology Del Norte (Prison)	13,249.49	0.00	0.00	0.00	0.00	13,249.49
Red Sky Roofing	8,534.49	0.00	0.00	0.00	0.00	8,534.49
Redwood National Park	1,099.27	0.00	0.00	0.00	0.00	1,099.27
Reservation Ranch *COLLECTIONS*	0.00	0.00	0.00	255.84	1,247.69	1,503.53
Richard Brown Construction	12.12	0.00	0.00	0.00	0.00	12.12
Richterich & Jones Const	186.27	190.81	0.00	0.00	0.00	377.08
Rick Parker Construction	402.83	0.00	0.00	0.00	0.00	402.83
Ritchie Homes	198.39	0.00	0.00	0.00	0.00	198.39
Ron Spitzner	1,115.78	0.00	0.00	0.00	0.00	1,115.78
Roy Rook Construction	83.29	140.55	0.00	0.00	0.00	223.84
Rural Human Services	21.20	7.75	0.00	0.00	0.00	28.95
S.O.S. Construction	48.46	0.00	0.00	0.00	0.00	48.46
Schnacker's *COLLECTIONS*	0.00	0.00	0.00	0.00	834.87	834.87
Seagull Apartments	112.16	0.00	0.00	0.00	0.00	112.16
Seawood Village	2,150.45	0.00	0.00	0.00	0.00	2,150.45
Smith River Equipment	0.00	193.85	0.00	0.00	0.00	193.85
Sprint Courier Service	119.65	0.00	0.00	0.00	0.00	119.65
Spruce Haven Mobile Home Park	25.75	23.60	0.00	0.00	0.00	49.35
Stephen F White Gen.Cont. Inc.	78.35	0.00	0.00	0.00	0.00	78.35
Stone Roofing	4,540.17	6,931.39	0.00	0.00	0.00	11,471.56
Swanson, Ray C. Construction	231.69	0.00	0.00	0.00	0.00	231.69
Tab & Associates	360.46	0.00	0.00	0.00	0.00	360.46
Thomas Gavin Construction	3.33	0.00	33.32	0.00	0.00	36.65
Thrifty Supply	11.68	0.00	0.00	0.00	0.00	11.68
Tim Haban Construction	51.49	0.00	0.00	0.00	0.00	51.49
Tolowa Dee-Ni' Nation	1,051.27	42.05	0.00	0.00	0.00	1,093.32
Totem Villa Apartments	114.02	0.00	0.00	0.00	0.00	114.02
TRKLA/TRGAS BINS AND LF BINS	4,685.72	0.00	0.00	0.00	0.00	4,685.72
Van Arsdale Construction	2,824.36	0.00	0.00	0.00	0.00	2,824.36
Wigley Contracting	12.12	0.00	0.00	0.00	0.00	12.12
Yurok Economic Dev Corp	145.77	0.00	0.00	0.00	0.00	145.77
Yurok Indian Housing Authority	199.63	98.34	27.62	0.00	0.00	325.59
Yurok Tribe	230.36	1,785.05	0.00	0.00	0.00	2,015.41
<b>TOTAL</b>	<b>178,735.36</b>	<b>20,528.33</b>	<b>2,476.37</b>	<b>264.93</b>	<b>2,681.84</b>	<b>204,686.83</b>

**CLAIMS APPROVED BY THE DIRECTOR**

Del Norte Solid Waste Management Authority

Claims for November 2018

Date Paid	Paid to:	Budget	Amt. Paid	Description	Claim #
11/2/2018	Ward, Tedd	20290	\$ 100.25	Travel Claim Reading Financial Strmts Seminar 10/30/18	Interdepartmental
11/5/2018	Quill	20224	\$ 9.13	INV 2259681 Qb rubber bands, 1/8X2-1/2 pk, 1	8311
	Quill	20140	\$ 4.07	INV 2259681 Purell natural hd sntrz 8Oz, 1	
	Quill	20224	\$ 45.46	INV 2259681 Brother tn420 black toner, 1	
	Quill	20224	\$ 47.83	INV 2259681 Brother tn630 black toner, 1	
	Quill	20140	\$ 7.51	INV 2259681 Kleenex 3Pk facial tissue, 1	
	Quill	20140	\$ 29.01	INV 2259681 Recyc pprtowel 2Ply 8 pk, 1	
11/5/2018	MacLeod Watts Inc.	20231	\$ 1,200.00	INV 181031DNSWM Prepare GASB 75 rpt for 06/30/18	8312
11/5/2018	G.H. Outreach	20285	\$ 50.00	INV 627055 October 2018 Recycling services	8313
11/5/2018	Bi-Coastal Media	20240-071	\$ 980.00	INV 5704-2 KPOD-FM Hambro Recycle Ads 10/03-30/18	8314
	Bi-Coastal Media	20240-071	\$ 1,036.00	INV 5704-1 KCRE-FM Hambro Recycle Ads 10/03-30/18	
11/6/2018	Curry Transfer Roto-Rooter	20140	\$ 173.08	INV 65942381 KTS PortaPotty October 2018	8315
	Curry Transfer Roto-Rooter	20140	\$ 173.08	INV 65942380 GTS PortaPotty October 2018	
11/6/2018	U S Bank Corp P S	20290	\$ 12.00	RCPT 27848 Parking, Sacramento 10/18/18	8316
	U S Bank Corp P S	20232-002	\$ 407.10	ORD 113-4380284-1493857 MS Project Pro 2016, 1	
	U S Bank Corp P S	20239-001	\$ 168.64	ORD 180055 12x12 Cross Tee 1234AN Plain End, 1	
	U S Bank Corp P S	20224	\$ 11.22	TRAN 388292716728820 Broom & dustpan	
	U S Bank Corp P S	20224	\$ 115.11	ORD 3041A P-ET110-HSN Pen with E-Tether, 2	
	U S Bank Corp P S	20224	\$ 42.96	TRAN 588269813907206 Vacuum Cleaner, 1	
	U S Bank Corp P S	20224	\$ 137.75	INV 110268839 Blue Pen with Clip & Stylus, 150	
	U S Bank Corp P S	20224	\$ 59.35	ORD 112-1534246-3237818 2019 Calendars	
	U S Bank Corp P S	20224	\$ 11.65	ORD 112-3232593-1941823 2019 Wall Calendar	
	U S Bank Corp P S	20290	\$ 139.00	ORD 20-26986035 Neg. Behaviors Seminar 10/17/18	
11/6/2018	Recology Del Norte	20238	\$ 2,325.96	INV 3224 Klamath Beach Rd 10/18 bin pull	8317
	Recology Del Norte	20238	\$ 581.49	INV 3223 Old Gasquet Toll Rd 10/18 bin pull	
11/6/2018	Quill	20224	\$ 5.35	INV 2364521 Columnar pad,3 column, 11X8.5, 1	8318
	Quill	20224	\$ 19.70	INV 2364521 Columnar pad,4 column, 11X8.5, 3	
	Quill	20224	\$ 448.98	INV 2364521 Greatwhite 50% copy paper cs, 6	
	Quill	20224	\$ 10.71	INV 2330912 Columnar pad,3 column, 11X8.5, 2	
	Quill	20224	\$ 27.79	INV 2301175 Heating pad, dry heat, 3-Settl, 1	
11/8/2018	Black & Rice LLP	20234	\$ 471.50	Statement for October 2018 Legal Fees	8319
11/13/2018	Hambro/Waste Solutions Group	20239	\$ 209,076.31	INV 2018-10 Material Management October 2018	8320
11/13/2018	Del Norte County Road Division	20239-001	\$ 1,648.47	INV 17008 Brushing at Landfill, Sep. 2018	Interdepartmental
11/13/2018	DN Auditor	20237	\$ 2,381.36	Debit/Credit Mo. October 2018	Interdepartmental
11/15/2018	DN Auditor	20221	\$ 0.13	10/18 Auditor Copies	Interdepartmental
11/15/2018	Bulcher, Andrew	20231	\$ 750.00	INV 2677 IT Services December 2018	8321
11/16/2018	Canon Financial Services, Inc.	20221	\$ 45.60	INV 19440535 Printing charges October 2018	8322
	Canon Financial Services, Inc.	20250	\$ 142.02	INV 19440535 Contract rental charges November 2018	
11/19/2018	DN Auditor	20121	\$ 119.97	10/19-11/18/18 office telephone service	Interdepartmental
11/19/2018	Ward, Tedd	20121	\$ 34.62	Cell Phone Allowance 10/26/18	Interdepartmental
11/19/2018	Ward, Tedd	20121	\$ 34.62	Cell Phone Allowance 11/09/18	Interdepartmental
11/19/2018	DN County Information Technology	20230	\$ 29.14	INV 22808 Labor, Board Meeting 11/13/18	Interdepartmental
11/19/2018	United States Cellular	20121	\$ 85.87	INV 0277512758 11/04-12/03/18 Cell Service	8323
11/20/2018	Container Recycling Institute	20200	\$ 250.00	INV 609 Membership 2019	8324
11/20/2018	Mission Linen Supply	20140	\$ 30.86	INV 508678991 Linen service 11/20/18	8325
	Mission Linen Supply	20140	\$ 30.86	INV 508585933 Linen service 11/06/18	
11/20/2018	Mathison, Jeffery	20290	\$ 401.67	Mileage reimbursement 09/14-11/17/18	8326
11/20/2018	Smith, Haley	20290	\$ 44.42	Mileage reimbursement 10/18-11/20/18	8327
11/20/2018	DN Auditor	20297	\$ 26.82	C. Renner Petroleum fuel charges 11/01-15/18	Interdepartmental
11/20/2018	DN Auditor	20297	\$ 25.97	C. Renner Petroleum fuel charges 10/16-31/18	Interdepartmental
11/26/2018	Crescent Ace Hardware	20175	\$ 32.24	INV 747731 Manhattan 10 Port USB	8328
11/26/2018	Recology Del Norte	20288	\$ 269.09	BILL 05450044 900 Tenth St - City Yard	8329
	Recology Del Norte	20283	\$ 487.69	BILL 05450036 500 Cooper Ave - County Yard	
	Recology Del Norte	20288	\$ 642.74	BILL 05450010 1001 Front St - Cultural Center	
11/26/2018	DN Auditor	20121	\$ 119.97	11/19-12/18/18 office telephone service	Interdepartmental
11/26/2018	Ward, Tedd	20121	\$ 34.62	Cell Phone Allowance 11/21/18	Interdepartmental
11/26/2018	Quill	20224	\$ 4.61	INV 2867439 Scch storge lg disp 48Mmx35M, 1	8330
	Quill	20224	\$ 16.11	INV 2867439 Calc spool value 6Pk blk/red, 1 pack	
	Quill	20224	\$ 7.50	INV 2867439 Quill colored copy paper-Ltr Blue, 1	
	Quill	20224	\$ 53.74	INV 2867439 Quill brand lmnng pch ltrsize, 1 box	
	Quill	20224	\$ 9.13	INV 2867439 Qb rubber bands 1/16X2-1/2, 1 pack	
	Quill	20140	\$ 7.51	INV 2867439 Kleenex 3Pk facial tissue, 1	
	Quill	20140	\$ 12.22	INV 2867439 Purell natural hd sntrz 8Oz, 3	
	Quill	20140	\$ 49.44	INV 2867439 Standard bath tissue, 2-Ply, 1 case	
11/29/2018	Merle Helstowski Signs	20180	\$ 405.28	28"x36" composite sign for KTS & GTS, 2	8331
	<b>TOTAL</b>		\$ 226,162.28		

<b>DNSWMA</b>			
<b>GRAND TOTALS</b>			
November 2018			
	Amount to 422-421 91003	Amount to 422-421 91004	TOTAL AMOUNT
	<b>66.53%</b>	<b>33.47%</b>	
<b>DNCTS Cash Total</b>	28,376.07	14,275.47	42,651.54
<b>DNCTS Charge Total</b>	118,837.43	59,784.89	178,622.32
<b>DNCTS Credit/Debit</b>	32,356.09	16,277.75	48,633.84
<b>DNCTS Adjustment</b>	-737.97	737.97	0.00
<b>DNCTS Totals</b>	178,831.62	91,076.08	269,907.70
<b>Klamath Cash Total</b>		5,041.30	5,041.30
<b>Klamath Charge Total</b>		200.07	200.07
<b>Klamath Adjustment</b>			
<b>Klamath Totals</b>		5,241.37	5,241.37
<b>Gasquet Cash Total</b>		1,771.91	1,771.91
<b>Gasquet Charge Total</b>		9.00	9.00
<b>Gasquet Adjustment</b>			
<b>Gasquet Totals</b>		1,780.91	1,780.91
<b>GRAND TOTALS</b>	<b>178,831.62</b>	<b>98,098.36</b>	<b>276,929.98</b>

2.4

**MONTHLY SPLIT SHEET**  
**DNSWMA TRANSFER STATION**  
**MONTH: NOVEMBER 2018**

Date	Cash	Checks	Cash/Check Total	Visa	Master	Discover	AmExp	Credit Card Total	Charges	Grand Total	66.53% 91003	33.47% 91004	20286	Total
1	\$ 790.59	\$ 15.50	\$ 806.09	\$ 1,211.72	\$ 34.84			\$ 1,246.56	\$ 7,272.38	\$ 9,325.03	\$ 536.29	\$ 269.80	\$0.15	\$ 806.24
2	\$ 1,403.16	\$ 114.94	\$ 1,518.10	\$ 1,267.40	\$ 216.41			\$ 1,483.81	\$ 7,711.62	\$ 10,713.53	\$ 1,009.99	\$ 508.11	\$0.13	\$ 1,518.23
3	\$ 1,648.83	\$ 198.42	\$ 1,847.25	\$ 2,140.92	\$ 57.91			\$ 2,198.83	\$ 1,271.80	\$ 5,317.88	\$ 1,228.98	\$ 618.27	\$0.06	\$ 1,847.31
4	\$ 1,687.31	\$ 27.26	\$ 1,714.57	\$ 1,840.32	\$ 74.16			\$ 1,922.23	\$ 892.57	\$ 4,529.37	\$ 1,140.70	\$ 579.87	\$0.16	\$ 1,714.73
5	\$ 948.62	\$ 128.70	\$ 1,077.32	\$ 1,690.08	\$ 414.14	\$106.01		\$ 2,334.41	\$ 7,612.75	\$ 11,024.48	\$ 716.74	\$ 360.58	\$0.29	\$ 1,077.61
6	\$ 1,155.70	\$ 67.55	\$ 1,223.25	\$ 1,066.41	\$ 80.44	\$ 88.54		\$ 1,235.39	\$ 9,729.45	\$ 12,188.09	\$ 813.83	\$ 409.42	(\$2.30)	\$ 1,220.95
7	\$ 1,049.29	\$ 324.25	\$ 1,373.54	\$ 1,717.96	\$ 433.34			\$ 2,285.38	\$ 5,862.69	\$ 9,521.61	\$ 913.82	\$ 459.72	\$2.83	\$ 1,376.37
8	\$ 922.48	\$ 340.73	\$ 1,263.21	\$ 781.92	\$ 547.79	\$ 84.81		\$ 1,414.52	\$ 8,178.10	\$ 10,855.83	\$ 840.41	\$ 422.80	\$0.21	\$ 1,263.20
9	\$ 1,771.80	\$ 448.26	\$ 2,220.06	\$ 1,135.82	\$ 19.87			\$ 1,155.69	\$ 429.14	\$ 3,804.89	\$ 1,477.01	\$ 743.05	(\$0.04)	\$ 2,220.02
10	\$ 1,241.26	\$ 257.80	\$ 1,499.06	\$ 1,457.08	\$ 102.71			\$ 1,559.79	\$ 1,107.42	\$ 4,166.27	\$ 997.32	\$ 501.74	\$0.28	\$ 1,499.06
11	\$ 1,253.56	\$ 353.82	\$ 1,607.38	\$ 866.03	\$ 249.88			\$ 1,115.91	\$ 7,909.01	\$ 10,632.30	\$ 1,069.39	\$ 537.99	\$2.04	\$ 1,607.66
12	\$ 1,429.53	\$ 129.85	\$ 1,559.38	\$ 1,279.36	\$ 55.83	\$ 7.75		\$ 1,503.64	\$ 13,423.80	\$ 16,486.82	\$ 1,037.46	\$ 521.92	\$2.04	\$ 1,561.42
13	\$ 1,208.81	\$ 89.24	\$ 1,298.05	\$ 1,369.81	\$ 178.88	\$ 28.77		\$ 1,777.51	\$ 6,013.06	\$ 9,066.32	\$ 863.59	\$ 434.46	(\$20.34)	\$ 1,277.71
14	\$ 1,152.86	\$ 263.12	\$ 1,415.98	\$ 1,384.49	\$ 95.76			\$ 74.21	\$ 1,554.46	\$ 11,104.08	\$ 942.05	\$ 473.93	\$0.12	\$ 1,416.10
15	\$ 1,473.02	\$ 152.13	\$ 1,625.15	\$ 1,256.89	\$ 206.20			\$ 139.37	\$ 1,602.46	\$ 13,597.08	\$ 1,081.21	\$ 543.94	\$0.01	\$ 1,625.16
16	\$ 2,532.93	\$ 220.85	\$ 2,753.78	\$ 2,681.37	\$ 301.69			\$ 25.74	\$ 3,008.80	\$ 6,750.88	\$ 1,832.09	\$ 921.69	\$0.25	\$ 2,753.78
17	\$ 1,632.39	\$ 187.09	\$ 1,819.48	\$ 1,234.92	\$ 72.68	\$ 7.75		\$ 1,315.35	\$ 1,376.59	\$ 4,511.42	\$ 1,210.50	\$ 608.98	(\$0.03)	\$ 1,819.45
18	\$ 1,354.46	\$ 58.22	\$ 1,412.68	\$ 1,363.82	\$ 260.87			\$ 1,624.69	\$ 9,166.80	\$ 12,204.17	\$ 939.86	\$ 472.82	\$0.06	\$ 1,412.74
19	\$ 2,083.36	\$ 229.94	\$ 2,313.30	\$ 2,058.09	\$ 68.50	\$ 34.83		\$ 69.66	\$ 2,231.08	\$ 15,031.55	\$ 1,539.04	\$ 774.26	(\$0.06)	\$ 2,313.24
20	\$ 735.72	\$ 16.84	\$ 752.56	\$ 737.03	\$ 65.12			\$ 42.40	\$ 844.55	\$ 7,370.69	\$ 500.68	\$ 251.88	(\$7.75)	\$ 744.81
21	CLOSED													
22	\$ 565.31	\$ 162.04	\$ 727.35	\$ 933.82	\$ 7.75			\$ 941.57	\$ 5,748.66	\$ 7,417.58	\$ 483.91	\$ 243.44	\$0.05	\$ 727.40
23	\$ 1,890.26	\$ 196.40	\$ 2,086.66	\$ 3,318.85	\$ 80.62	\$ 30.29		\$ 3,429.76	\$ 5,933.42	\$ 11,449.84	\$ 1,388.25	\$ 698.41	(\$0.60)	\$ 2,086.06
24	\$ 1,923.27	\$ 145.05	\$ 2,068.32	\$ 2,786.58	\$ 41.07	\$ 7.75		\$ 102.98	\$ 807.36	\$ 5,814.06	\$ 1,376.05	\$ 692.27	\$0.14	\$ 2,068.46
25	\$ 1,749.36	\$ 89.88	\$ 1,839.24	\$ 1,650.67	\$ 343.76	\$ 39.55		\$ 2,033.98	\$ 7,148.64	\$ 11,021.86	\$ 1,223.65	\$ 615.59	\$0.01	\$ 1,839.25
26	\$ 542.47	\$ 7.75	\$ 550.22	\$ 1,123.23	\$ 7.75	\$ 7.65		\$ 1,138.63	\$ 9,495.00	\$ 11,183.85	\$ 366.06	\$ 184.16		\$ 550.22
27	\$ 887.45	\$ 42.41	\$ 929.86	\$ 1,224.58	\$ 314.73			\$ 1,539.31	\$ 5,184.85	\$ 7,654.02	\$ 618.64	\$ 311.22	(\$0.05)	\$ 929.81
28	\$ 725.55	\$ 7.75	\$ 733.30	\$ 953.42	\$ 177.36	\$ 54.52		\$ 98.44	\$ 1,283.74	\$ 7,297.12	\$ 487.86	\$ 245.44	(\$7.25)	\$ 726.05
29	\$ 1,361.79		\$ 1,361.79	\$ 847.28	\$ 7.75			\$ 71.18	\$ 7,464.68	\$ 9,752.68	\$ 908.00	\$ 455.79	(\$9.13)	\$ 1,362.66
30														
31														
TOTALS	\$ 38,142.36	\$ 4,509.18	\$ 42,651.54	\$ 42,290.76	\$ 4,525.56	\$ 498.22	\$ 1,319.30	\$ 48,633.84	\$ 178,622.32	\$ 269,907.70	\$ 28,376.07	\$ 14,275.47	\$ (40.77)	\$ 42,610.77

Ticket 1044038 no approval code \$21.81

Ticket 1045519 visa amount changed

<b>DAILY TICKET REPORT</b>				
<b>DNSWMA TRANSFER STATION</b>				
<b>MONTH: November 2018</b>				
<b>Date</b>	<b>BEGIN</b>	<b>END</b>	<b>VOIDED TICKETS</b>	<b>TICKET COUNT</b>
1	1041403	1041568		166
2	1041569	1041763		195
3	1041764	1042007		244
4	1042008	1042226		219
5	1042227	1042407		181
6	1042408	1042603	1	195
7	1042604	1042800		197
8	1042801	1042979		179
9	1042980	1043153		174
10	1043154	1043357		204
11	1043358	1043540		183
12	1043541	1043707		167
13	1043708	1043919		212
14	1043920	1044112		193
15	1044113	1044315		203
16	1044316	1044518		203
17	1044519	1044755		237
18	1044756	1044968		213
19	1044969	1045182		214
20	1045183	1045433		251
21	1045434	1045553		120
22	<b>CLOSED</b>			
23	1045554	1045633		80
24	1045634	1045892		259
25	1045893	1046118		226
26	1046119	1046367		249
27	1046368	1046477		110
28	1046478	1046604		127
29	1046605	1046737		133
30	1046738	1046902		165
<b>TOTAL</b>			<b>1</b>	<b>5499</b>

High

259

Low

80

Daily Ave.

190

<b>DNSWMA</b>									
<b>KLAMATH TRANSFER STATION - DEPOSITS</b>									
<b>November-2018</b>									
<b>Date</b>	<b>Cash</b>	<b>Checks</b>	<b>Deposit</b>	<b>Over / Short</b>	<b>Sales</b>	<b>TOTAL Sales</b>	<b>Charges</b>	<b>Cash + Charge</b>	<b>Tickets</b>
November 4, 2018	629.32	292.58	921.90	9.29	912.61	921.90		921.90	36
November 7, 2018	445.69	33.21	478.90	0.87	478.03	478.90	66.13	545.03	24
November 11, 2018	913.05	88.49	1,001.54	0.37	1,001.17	1,001.54		1,001.54	37
November 14, 2018	349.52	9.00	358.52	(3.58)	362.10	358.52		358.52	15
November 18, 2018	618.89	12.10	630.99	0.15	630.84	630.99		630.99	37
November 21, 2018	176.10	9.00	185.10	0.25	184.85	185.10		185.10	6
November 25, 2018	910.03	328.54	1,238.57	2.19	1,236.38	1,238.57		1,238.57	44
November 28, 2018	151.43	74.35	225.78	0.00	225.78	225.78	133.94	359.72	18
			0.00			0.00		0.00	
			0.00			0.00		0.00	
<b>TOTAL</b>	<b>\$ 4,194.03</b>	<b>847.27</b>	<b>\$ 5,041.30</b>	<b>9.54</b>	<b>\$ 5,031.76</b>	<b>\$ 5,041.30</b>	<b>\$ 200.07</b>	<b>\$5,241.37</b>	<b>217</b>
<b>TOTAL SALES (CASH + CHARGE)</b>									
<b>Date</b>	<b>Wednesday</b>	<b>Friday</b>	<b>Sunday</b>						
November 4, 2018			921.90						
November 7, 2018	545.03								
November 11, 2018			1,001.54						
November 14, 2018	358.52								
November 18, 2018			630.99						
November 21, 2018	185.10								
November 25, 2018			1,238.57						
November 28, 2018	359.72								
<b>TOTALS</b>	<b>\$1,448.37</b>	<b>\$0.00</b>	<b>\$3,793.00</b>						
<b>DAILY AVERAGE</b>	<b>\$362.09</b>								
			<b>\$948.25</b>						

DNSWMA										
GASQUET TRANSFER STATION - DEPOSITS										
November-2018										
Date	Cash	Checks	TOTAL Deposit	Over / Short	Sales	TOTAL Sales	Charges	TOTAL Cash + Charge	Tickets	Notes
November 3, 2018	517.33	89.81	607.14	\$10.00	597.14	607.14		607.14	37	
November 10, 2018	280.13	123.18	403.31		403.31	403.31		403.31	31	
November 17, 2018	279.55	57.72	337.27	(\$0.24)	337.51	337.27	9.00	346.27	27	
November 24, 2018	406.19	18.00	424.19		424.19	424.19		424.19	20	
			0.00			0.00		0.00		
			0.00			0.00		0.00		
			0.00			0.00		0.00		
			0.00			0.00		0.00		
			0.00			0.00		0.00		
<b>TOTAL</b>	\$ 1,483.20	\$ 288.71	\$ 1,771.91	\$ 9.76	\$ 1,762.15	\$ 1,771.91	\$ 9.00	\$ 1,780.91	115	
<b>TOTAL SALES (CASH + CHARGE)</b>										
<b>Date</b>	<b>Thursday</b>	<b>Saturday</b>								
November 3, 2018		607.14								
November 10, 2018		403.31								
November 17, 2018		346.27								
November 24, 2018		424.19								
<b>TOTALS</b>	<b>\$0.00</b>	<b>\$1,780.91</b>								
<b>DAILY AVERAGE</b>		\$445.23								

**AUTHORITY      REVENUE      REPORT      November 2018**

**2017/18**

**2018/2019**

**Authority Service Fees**  
 Budget/Month      Adjusted Annual Budget  
 \$ 103,734.42      \$ 1,244,813.00

2017/18		Comparison FY17/18	Actual/Month		Over Budget
July	\$ 115,382.33	\$ (1,965.59)	July	\$ 113,416.74	\$ 9,682.32
August	\$ 118,024.42	\$ (2,917.81)	August	\$ 115,106.61	\$ 11,372.19
September	\$ 104,891.71	\$ 1,670.12	September	\$ 106,561.83	\$ 2,827.41
October	\$ 96,243.50	\$ 20,112.53	October	\$ 116,356.03	\$ 12,621.61
November	\$ 87,399.47	\$ 10,698.89	November	\$ 98,098.36	\$ (5,636.06)
December	\$ 89,344.86	\$ -	December		\$ -
January	\$ 100,555.83	\$ -	January		\$ -
February	\$ 87,672.05	\$ -	February		\$ -
March	\$ 98,856.22	\$ -	March		\$ -
April	\$ 97,152.67	\$ -	April		\$ -
May	\$ 122,808.15	\$ -	May		\$ -
June	\$ 104,797.23	\$ -	June		\$ -
<b>Total</b>	<b>\$ 1,223,128.44</b>	<b>\$ 27,598.14</b>	<b>Total</b>	<b>\$ 549,539.57</b>	<b>\$ 30,867.49</b>

Over last year  
Over Budget

**AUTHORITY      REVENUE      REPORT      November 2018**

**2017/2018**

**2018/2019**

Franchise Fee	Actual Annual		Budget/Year	
	2017/2018	Comparison FY 18/19-FY 17/18	2018/2019	Over/(Under) Budget
July	\$ 24,594.00	\$ 398.00	\$ 24,992.00	\$ 748.50
August	\$ 22,628.00	\$ 3,686.00	\$ 26,314.00	\$ 2,070.50
September	\$ 24,003.00	\$ 6,668.00	\$ 30,671.00	\$ 6,427.50
October	\$ 22,699.00	\$ 6,002.00	\$ 28,701.00	\$ 4,457.50
November	\$ 21,921.00	\$ 6,074.00	\$ 27,995.00	\$ 3,751.50
December	\$ 22,566.00	\$ -		\$ -
January	\$ 20,591.00	\$ -		\$ -
February	\$ 22,030.00	\$ -		\$ -
March	\$ 21,197.00	\$ -		\$ -
April	\$ 22,923.00	\$ -		\$ -
May	\$ 23,040.00	\$ -		\$ -
June	\$ 23,586.00	\$ -		\$ -
<b>Total</b>	<b>\$ 271,778.00</b>	<b>\$ 22,828.00</b>	<b>\$ 138,673.00</b>	<b>\$ 17,455.50</b>

Over/(Under) last year

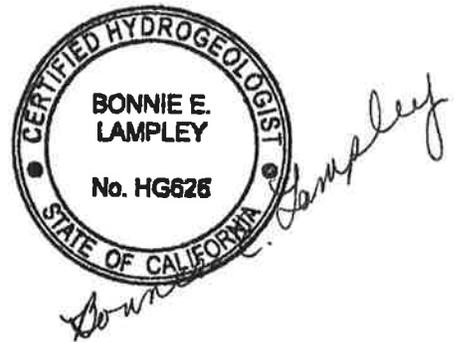
Over/ (Under) Budget



015063.00

**FIRST-HALF 2018**  
**WATER-QUALITY MONITORING REPORT**  
**FOR**  
**CRESCENT CITY LANDFILL**

**NOVEMBER 27, 2018**



PREPARED FOR:

**DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY**  
**1700 STATE STREET**  
**CRESCENT CITY, CA 95531**

3.1

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3. Groundwater elevation, deep aquifer, January 22, February 12, & March 5, 2018
4. TDS time-series graphs, east to southeast of Landfill
5. TDS time-series graphs, northeast to north of Landfill
6. TDS time-series graphs, upgradient of Landfill

### Tables

1. Summary of current water-level data (following text)
2. Summary of current monitoring data (following text)
3. Summary of historic organic-compound detections (following text)

### Attachments

- A. Field data & laboratory sheets
- B. Time-series graphs – general parameters
- C. Historical data tables (separate file)

## **INTRODUCTION**

This document presents the first-half 2018 water-quality monitoring report for the Crescent City Landfill (Landfill), Del Norte County, California (**Figures 1 and 2**). Lawrence & Associates (L&A) prepared this report at the request of the Del Norte Solid Waste Management Authority (DNSWMA), a joint powers authority of the County of Del Norte and the only incorporated city, Crescent City. The Authority has administrative responsibility for the Crescent City Landfill, including environmental monitoring, reporting, and compliance, though the landfill and landfill property are owned by the County of Del Norte.

The Landfill, which was closed in March 2005, is monitored under Waste Discharge Requirements (WDR) Order No. 97-90, issued by the North Coast Regional Water Quality Control Board (NCRWQCB) on September 25, 1997.

In anticipation of updating the WDR, the DNSWMA proposed updates to the Monitoring & Reporting Program (MRP). To that end, L&A prepared a report (MRP Update Report) summarizing the landfill history and operations, describing the hydrogeology of the site in detail, and interpreting the historical water-quality data, and proposing changes to the MRP.<sup>1</sup>

On September 16, 2016, the NCRWQCB issued a letter reducing the Threat/Complexity (T/C) Rating for the Landfill from 1A to 2A. The letter stated the following:

“Specifically, to maintain a 2A rating, you must continue to monitor the two nearest domestic wells, identified as 110-140-24 and 110-149-16, twice a year at the same time as the SWDS sampling. Analytes shall include, at a minimum, the general chemistry and field parameters required at the SWDS monitoring wells and volatile organic compounds U.S. EPA Method 8260, including oxygenates. Data from these wells shall be included in the regular monitoring reports. Other monitoring points may be proposed to replace sampling at the domestic wells, but are subject to review and approval by the Executive Officer of the Regional Water Board.”

DNSWMA staff has contacted the owners of the above-described wells to obtain permission to sample, but the owners declined to give permission.

Based on the analysis herein and the MRP Update Report, it is neither clear whether an additional downgradient well is necessary at this time nor where one should be located. The location of new downgradient wells may depend, in part, on the results of the residential well sampling, and on the continued monitoring of the E-4 well pair. In the MRP Update Report, we recommended evaluating the need and/or location for a new downgradient well in six months, after one more sampling event for the E-4 pair and sampling of the residential wells. The E-4 well pair was not

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<sup>1</sup> L&A, January 13, 2016, *Proposed Updates to Monitoring & Reporting Program for Crescent City Landfill*.

sampled in either of the 2016 events, but was sampled in both 2017 events, and E-4 Shallow was sampled in first-half 2018 (E-4 Deep did not contain sufficient water for sampling in first-half 2018). The need for a new downgradient well is discussed herein, based on the results from the first- and second-half 2017 sampling. We also recommend sampling the above-described residential wells, although we understand from DNSWMA staff that the residents have indicated they do not wish to participate in any further monitoring of their wells.

## **SUMMARY**

### **GROUNDWATER GRADIENT AND MOVEMENT**

**Figures 2 and 3** shows groundwater elevation contour maps based on combined water-level measurements made on January 22, February 12, and March 5, for the Dune (shallow) and Battery (deep) aquifers, respectively. The direction of the groundwater gradient is similar in both aquifers, generally ranging from east to southeast at magnitudes ranging from 0.006 to 0.022 feet/foot. The exception to the overall gradient direction and magnitude is at the northeastern corner of the landfill in the deep aquifer. In this area, the gradient steepens to approximately 0.071 feet/foot towards the northeast. All gradients are similar to previous periods.

### **GENERAL WATER QUALITY**

First-half 2018 water-quality monitoring was performed by DNSWMA per WDR Order No. 97-90.

Volatile organic compounds (VOC) were not detected in any of the monitored wells in first-half 2018. The last time VOC were detected was in first-half 2017 (two detections – 0.5 µg/L of methyl tert-butyl ether (MTBE) in E-1 Shallow and 1.7 µg/L of toluene in SM-7 Shallow). Previously, MTBE was detected in E-1 at 1 µg/L (March 2014). During the March 2014 sampling event, 23 µg/L of tert-butyl alcohol (TBA) and 3.9 µg/L of acetone also were detected in E-1. The latter two compounds have not been detected in E-1-SH since 2014.

VOC were not detected in well SM-6, which contained 0.90 µg/L of toluene and 24 µg/L of benzene in the first-half 2016 sampling event. The detections of VOC in SM-6 between 2012 and 2016 were attributed to vandalism. This is supported by the decreasing trend for total dissolved solids (TDS) since closure; if landfill leachate were imparting VOC, TDS would not be expected to be decreasing. TDS is used here as an indicator of the general water quality and level of mineralization. As described in the second-half 2016 report, SM-6 was redeveloped, and the casing was extended and a locking compression cap installed to prevent surface-water inflow and vandalism.

VOC were not detected in E-4 Shallow (E-4 Deep did not contain sufficient water for sampling), the well closest to the nearest residences. Well E-4 Shallow has always been nondetected for VOC. Well E-4 Deep had previous detections, in 2014, of 0.56 µg/L of MTBE and 6.9 µg/L of TBA. In E-4 Shallow, general parameters (such as TDS, alkalinity, hardness, calcium, sodium, etc.) have shown a distinct decline in concentration over the last four years.

Therefore, based on the recent historical and current results, a new well further downgradient of the E-4 pair does not appear to be warranted at this time. It is imperative, however, that the E-4 pair be sampled during every monitoring event, even though they are not officially listed in the WDR. The need for additional wells downgradient of the E-4 pair and upgradient of the nearest residences should continue to be evaluated after every sampling event, for the foreseeable future.

Wells downgradient of the Landfill and between the Landfill and the residential area show decreasing trends for TDS since Landfill closure. The E-3 pair, W-6E, W-6W, and SM-6 all show statistically significant decreasing trends in TDS since closure.<sup>2</sup> The E-1 pair shows decreasing trends in TDS, although not statistically significant. Most of these wells have not shown VOC detections for at least the last seven years. VOC have never been detected in W-6E; VOC have not been detected in W-6W since 2001.

The only increasing trend in TDS is in crossgradient well W-2, and it is unusual, in that there is not a correlative increase in TDS in any of the downgradient wells. If the increase in TDS in W-2 was attributable to significant leachate migrating to groundwater over such a long period (almost 30 years), it would be expected that the downgradient wells would be showing increasing trends. All downgradient wells, however, are showing decreasing trends. Landfill-gas migration also does not appear to be causing this increase, as no other wells show a similar trend. The video survey of W-2, conducted in 2016, did not show damaged casing, but did show that surface-water intrusion had been occurring. L&A staff redeveloped and properly capped W-2 in 2016. Data from 2016 and 2017 suggest that this work may have been effective in slowing or stopping the increasing trends, as the concentrations of several parameters (alkalinity, bicarbonate, calcium, conductivity, hardness, magnesium, and TDS) have stabilized (see graphs in **Attachment B**).

## **SITE DESCRIPTION**

The Landfill is located two miles north of Crescent City, in Del Norte County, on a 166-acre property (**Figure 1**). The property encompasses parcels APN 110-020-08, APN 1120-020-43, and a portion of APN 110-020-69. The property is owned by Del Norte County and zoned as a Public Facility. Current land uses within one mile of the site are recreational, wildlife habitat, agricultural, residential, and industrial. The Landfill mound comprises approximately 23 acres of the 167-acre site.

The landfill property is surrounded on three sides by land owned by the California Department of Parks and Recreation; their holdings include approximately 5,000 acres extending from Old Mill Road to the ocean, less than two miles to the west. There is a residential area consisting of sixteen properties located approximately one quarter to one half mile north-northeast of the Landfill mound (main body of waste; **Figures 2 and 3**).

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<sup>2</sup> *Ibid.*

In 1996, the approximate southern half of the landfill was capped with a 60-mil coextruded geomembrane. In October 2005, the second phase of closure included capping the remaining area with a linear low-density polyethylene (LLDPE) geomembrane. Since 2005, no waste has been disposed at the Landfill.

Since 1997, groundwater-monitoring has been conducted using 17 groundwater monitoring wells, one leachate well, and three surface-water points. Two additional wells, E-4 Shallow and E-4 Deep, have been sampled but are not under MRP 97-90, as they were installed in 2014. Monitoring is conducted by DNSWMA and County staff.

Beginning in at least 1987, evidence of Landfill influence on groundwater and surface-water quality was noted. Impacts consist of periodic detections of organic compounds and elevated mineral constituents. In general, however, water quality has improved since the completion of landfill capping. This was discussed in detail in the MRP Update Report.

## **METHODS**

### **SAMPLING**

DNSWMA staff conducted the groundwater and surface-water sampling per the protocol recommended in a Technical Memorandum prepared in 1996 by Winzler & Kelly, and approved by NCRWQCB staff. Before sampling, the depth to water in each groundwater well was measured to the nearest 0.01 foot with an electronic well sounder.

Field parameters were measured per the Sampling and Analysis Plan; the meter was calibrated the morning of the actual testing.

Samples were shipped on ice and accompanied by appropriate chain-of-custody documentation, to North Coast Laboratories, Ltd., in Arcata, California.

## **HYDROGEOLOGICAL SETTING**

The following discussions of the hydrogeologic setting and water quality were taken from the more detailed description in the MRP Update Report. Please refer to that report for additional information, as indicated.

### **STRATIGRAPHY**

The Landfill site is underlain by the following geologic units, from ground surface downwards:

- Dune deposits of well-sorted, poorly consolidated, fine-grained sand. The Dune deposit is of varying thickness, depending on the ground-surface topography. In the higher elevation portions of the site, the Dune deposits can be as much as 40 feet thick (*e.g.*, as in the boring for the E-4 wells). In other areas, the Dune deposits may be less than 10



feet thick (*e.g.*, as in the boring for well W-2). Hydraulic conductivity of the Dune deposits ranges from  $1.1 \times 10^{-3}$  to  $5.8 \times 10^{-3}$  cm/sec.

- Underlying the Dune deposits is a unit characterized as the Marsh deposit. The Marsh deposit consists of interbedded peat and silty to clayey sand. It can be present merely as a zone of organic material or greenish-gray clayey zone, or range up to 10 feet thick. It appears to thicken to the northeast (*e.g.*, as in the boring for the E-4 wells).
- Underlying the Marsh deposit is the Battery Formation, a littoral sand deposit. The Battery Formation ranges in thickness from about five to 30 feet, although, in general, it is thinner overall than the Dune deposits. Hydraulic conductivity of the Battery Formation ranges from  $4.1 \times 10^{-4}$  to  $6.1 \times 10^{-5}$  cm/sec.
- Underlying the Battery Formation is bedrock of the St. George Formation. The St. George Formation consists of highly consolidated siltstone and sandstone, and is considered essentially non-water bearing.

The Dune, Marsh, and Battery deposits range in age from Pleistocene to Holocene (approximately 2.5 million years to present). The St. George Formation is late Miocene in age (approximately 5 to 6 million years).

#### **SURFACE-WATER OCCURRENCE**

Because of the relatively high permeability of the Dune deposits, precipitation and surface drainage can rapidly percolate downward into the deposits. Similarly, there can be a relatively strong connection between groundwater and surface water, especially where groundwater levels are near ground surface. Historically, groundwater mounds were noted below surface impoundments.

#### **GROUNDWATER OCCURRENCE**

Groundwater occurs principally in the Dune and Battery deposits; for practical purposes, the St. George Formation is non-water bearing. Although the Marsh deposit is saturated in some locations, it is not considered an aquifer; rather, it acts as an aquitard between the Dune and Battery deposits.

Depth to groundwater at the Landfill site generally ranges from near ground surface (less than five feet) to approximately 40 feet below ground surface (bgs).

At all locations, the elevation of the piezometric surface is higher in the Dune deposit relative to that of the Battery Formation. The difference ranges from about one foot (in the W-6E/W pair) to almost eight feet (in the W-1E/W pair). Thus, the relative elevations of the piezometric surfaces show that there is a net downward gradient from the Dune deposit to the Battery Formation. This is the case even though the Battery Formation aquifer is semiconfined by the Marsh deposit.

**Figures 2 and 3** shows groundwater elevation contour maps based on combined water-level measurements made on January 22, February 12, and March 5, for the Dune (shallow) and Battery (deep) aquifers, respectively. **Table 1** (following text) summarizes the current groundwater-level data. The direction of the groundwater gradient is similar in both aquifers, generally ranging from east to southeast at magnitudes ranging from 0.006 to 0.022 feet/foot. The exception to the overall gradient direction and magnitude is at the northeastern corner of the landfill in the deep aquifer. In this area, the gradient steepens to approximately 0.071 feet/foot towards the northeast.

Although the various wells' screened intervals are not exactly the same, the differences in screened-interval length or elevation is not sufficient to cause such distinct changes in gradient. Possible explanations for the gradient changes are stratigraphic changes and changes in elevation of the top of the St. George Formation.

To the northeast of the Landfill, the Battery Formation (deep aquifer) essentially thins to nothing, with the lower permeability Marsh deposit lying directly on the St. George Formation. Additionally, the top of bedrock is higher in elevation to the northeast, leading to a thinning of the aquifer. With a thinner aquifer and decreasing hydraulic conductivity, an increase in the groundwater gradient is to be expected.

## **WATER QUALITY**

**Table 2** (following text) contains a summary of the second-half results. **Table 3** (following text) contains a summary of historical and current VOC detections. **Attachment A** contains laboratory sheets and field data; **Attachment B** contains time-series graphs of general mineral parameters. Tables for historical data are presented in **Attachment C** (as a separate file).

As early as 1987, groundwater quality impacts from site operations were noted. The impacts were attributed to different site operations, including the now-closed sludge and whey ponds, and the landfill itself. Closure of the various ponds and capping the landfill, however, has improved groundwater quality in almost all locations.

### ***SOUTHEAST TO SOUTHWEST OF LANDFILL MOUND***

**Figure 4** shows TDS time-series graphs for the E-1 pair, E-2 Deep, SM-6, W-2 Deep, W-3S, and W-8 Shallow, located on the generally southeast to southwest sides (downgradient and crossgradient) of the Landfill.

In the E-1 pair, TDS increased in the period 1996 through 2009, but has decreased since 2009. The overall increase between 1996 and 2015 is statistically significant at the 95% level (statistical sheets are in Attachment A in the MRP Update Report). Since closure (2006 to present), TDS in both E-1 wells is decreasing, although the decrease is not statistically significant and E-1 Deep has shown a higher TDS periodically in the last three years. TDS value in the shallow aquifer at E-1 was at 269 mg/L in first-half 2018.

Southeast and immediately adjacent to the landfill, shallow well SM-6 shows a statistically significant decreasing trend for TDS for 1995 through 2015; TDS continued to decline in 2016, but has been slightly higher for the last two monitoring events. TDS in SM-6 was at 353 mg/L in first-half 2018. Well E-2 Deep shows no significant trend for its period-of-record (2007 to present). TDS in E-2 Deep was at 571 mg/L in first-half 2018.

Well SM-6 had detections of relatively high concentrations of toluene between September 2012 and September 2013 (see below); toluene was nondetected in November 2014 and March 2015, but detected again in August 2015 and January 2016. Toluene has been nondetected since January 2016.

Date	SM-6, Toluene (µg/L)	Date	SM-6, Toluene (µg/L)
6-Sep-12	610	25-Feb-14	1.3
24-Jan-13	1.6	24-Nov-14	<0.5
20-Aug-13	2600	19-Mar-15	<0.5
17-Sep-13	270	18-Aug-15	91
		27-Jan-16	0.90

The patterns of detections (sudden onsets, sudden decreases) is more characteristic of vandalism or the presence of VOC-containing materials in the well, not Landfill influence. As described above, SM-6 was redeveloped and properly secured in 2016.

At the immediate southwestern corner of the Landfill, well W-2 Deep is the only site well that currently shows an increasing trend since closure. This location is very close to the landfill, and the groundwater level here likely is very close to the bottom of waste. The TDS in W-2 Deep shows a significant increasing trend since at least 1990, with no apparent changes since closure. In 2016 and first-half 2017, TDS in W-2 deep approached 900 mg/L. TDS has declined to approximately 700 mg/L since then.

VOC have only been detected in W-2 Deep once, in August 2009 (hexachloroethane at 110 µg/L). This detection may reflect non-landfill influence because hexachloroethane also was detected at exactly 110 µg/L in five of the site wells on the same date; it seems unlikely that contamination derived from the landfill would show the same concentration in five wells on the same date.

As described above (page 3), it appears that surface water had been entering the casing of W-2 Deep. Surface-water inflow should cease because the casing was extended and a water-tight cap was installed during second-half 2016. Data from 2016 to date suggest that this work may have been effective in slowing or stopping the increasing trends, as the concentrations of several parameters (alkalinity, bicarbonate, calcium, conductivity, hardness, magnesium, and TDS) have stabilized or decreased (see graphs in **Attachment B**).

The two shallow wells in the area southwest of the Landfill mound, W-3 Shallow and W-8 Shallow, are upgradient and crossgradient of the Landfill mound, respectively, although W-3 Shallow is downgradient of former waste ponds. For the period 1988 through 2015, W-3 Shallow showed a significant decreasing trend and W-8 Shallow showed no significant trend.

This is consistent with W-3 Shallow being downgradient of the former ponds. After their closure, it would be expected that downgradient groundwater quality would improve. W-8 Shallow is crossgradient of former and current Landfill features, so it would be expected that groundwater quality would remain stable at that location. The most recent TDS concentrations in these wells are approximately 180 mg/L. VOC have been nondetected in W-3 Shallow for the last six years; VOC have always been nondetected in W-8 Shallow.

#### **NORTHEAST TO NORTH OF LANDFILL MOUND (TOWARDS RESIDENTIAL AREA)**

**Figure 5** shows the time-series graphs for wells northeast to north of the Landfill mound, directly between the Landfill and the closest neighboring wells which are to the northeast of the Landfill property. Monitoring wells between the Landfill and the neighbors are the E-3 and E-4 pairs. The E-3 pair has been monitored since 1996; the E-4 pair was installed in early 2014, and has a limited number of data points.

Looking at TDS from the period-of-record shows that values were higher in both E-3 Shallow and Deep before closure. Before closure, TDS ranged near or above 1,200 mg/L periodically in these wells. Since closure, TDS has decreased and generally is near or below 300 to 400 mg/L currently. The decreasing trends in these wells since closure is statistically significant.

Both wells have had periodic detections of VOC, although all VOC have been nondetected in E-3 Shallow for the last eight years. In E-3 Deep, there were occasional detections of chloroethene, at 1 to 2 µg/L, between 2002 and 2013. Methyl tert-butyl ether (MTBE) was detected in E-3 Deep in 2002 (6.4 µg/L), 2009 (0.52 µg/L), and 2014 (0.74 µg/L). Tert-butyl alcohol (TBA) was detected in E-3 Deep in August 2014 at 13 µg/L. No VOC were detected in either E-3 Shallow or Deep in 2017. Constituents-of-concern (COC) are analyzed every five years; to date, COC have been analyzed twice since the landfill closure construction was completed, in 2009 and 2014 (COC are due to be analyzed again in 2019). **Table 3** (following text) summarizes historical organic compound detections.

In the E-4 Shallow and Deep pair, TDS has declined over the period 2014 through 2017. MTBE and TBA were nondetected in the shallow aquifer. In the deep aquifer, MTBE was detected at 0.6 µg/L and TBA at 6.9 µg/L in August 2014. No VOC were detected in E-4 Shallow in first-half 2018.

At the immediate northern edge of the Landfill mound and crossgradient of the waste, the 6-E Shallow and 6-W Deep pair show no significant trends in TDS for the period-of-record. Since closure, however, both show significant decreasing trends. Over the last five years, TDS has hovered around 200 mg/L for both wells. VOC have always been nondetected in 6-E Shallow; VOC have not been detected since 2001 in 6-W Deep.

In the shallow aquifer farther north and crossgradient of the Landfill mound, well W-10 Shallow shows no significant trends for TDS, although there are distinct seasonal variations in TDS concentrations. TDS generally ranges between 100 and 300 mg/L, seasonally. VOC have always been nondetected.

### **UPGRADIENT OF LANDFILL MOUND**

**Figure 6** shows the time-series graphs for wells upgradient of the Landfill mound. The well pair W-1E Deep and W-1W Shallow historically showed relatively high TDS concentrations (500 to 800 mg/L) which were related to the previous waste ponds. After closure of the waste ponds, TDS in this well pair decreased almost immediately, and has remained relatively constant since that time. The most recent TDS values generally are less than 150 mg/L for the deep aquifer and less than 200 mg/L for the shallow aquifer. VOC have always been nondetected in this well pair.

Well SM-7, in the shallow aquifer to the north of the W-1E/W-1W pair, shows a similar pattern. Historic TDS values were as high as 1,200 mg/L because SM-7 was near former waste ponds. After closure, TDS decreased immediately, and since 2006 has been stable, ranging from 100 to 150 mg/L. There was one VOC detection in 2009 (hexachloroethane at 110 µg/L); as discussed above, it is likely that the hexachloroethane detection in 2009 represented outside contamination of some sort, not aquifer conditions. During first-half 2017, toluene at 1.7 µg/L was detected in SM-7. The significance of this detection is unknown. VOC were not detected in second-half 2017 or first-half 2018.

Upgradient of the Landfill mound and generally outside of the influence of other Landfill features, the W-9 Shallow/Deep well pair has shown consistent water quality since 1997. For that period, TDS in the shallow aquifer here has been consistently just over 240 mg/L. In the deep aquifer, TDS has shown more variability than in the shallow aquifer, ranging between 100 and 250 mg/L. VOC always have been nondetected in this well pair.

### **COMPARISON TO GROUNDWATER LIMITS**

**Table 2** (following text) shows the previously established groundwater limits for the shallow aquifer; limits were not established for the deep aquifer.<sup>3</sup> Of the analyzed parameters, which also have limits, only SM-6 Shallow (downgradient of the landfill) showed an exceedance, for manganese (0.88 mg/L exceeding the limit of 0.6 mg/L).

### **LANDFILL GAS**

**Figures 2 and 3** show landfill-gas probe locations. Monitoring data were not provided to L&A for preparation of this report.

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<sup>3</sup> March 27, 1996, rev. October 14, 1996, Winzler & Kelly, *Technical Memorandum – Deliverable for Tasks 2, 3, and 4 of Article 5 Compliance Documents*.

**TABLE 1**  
**Summary of Current Water-Level Data - Crescent City Landfill**

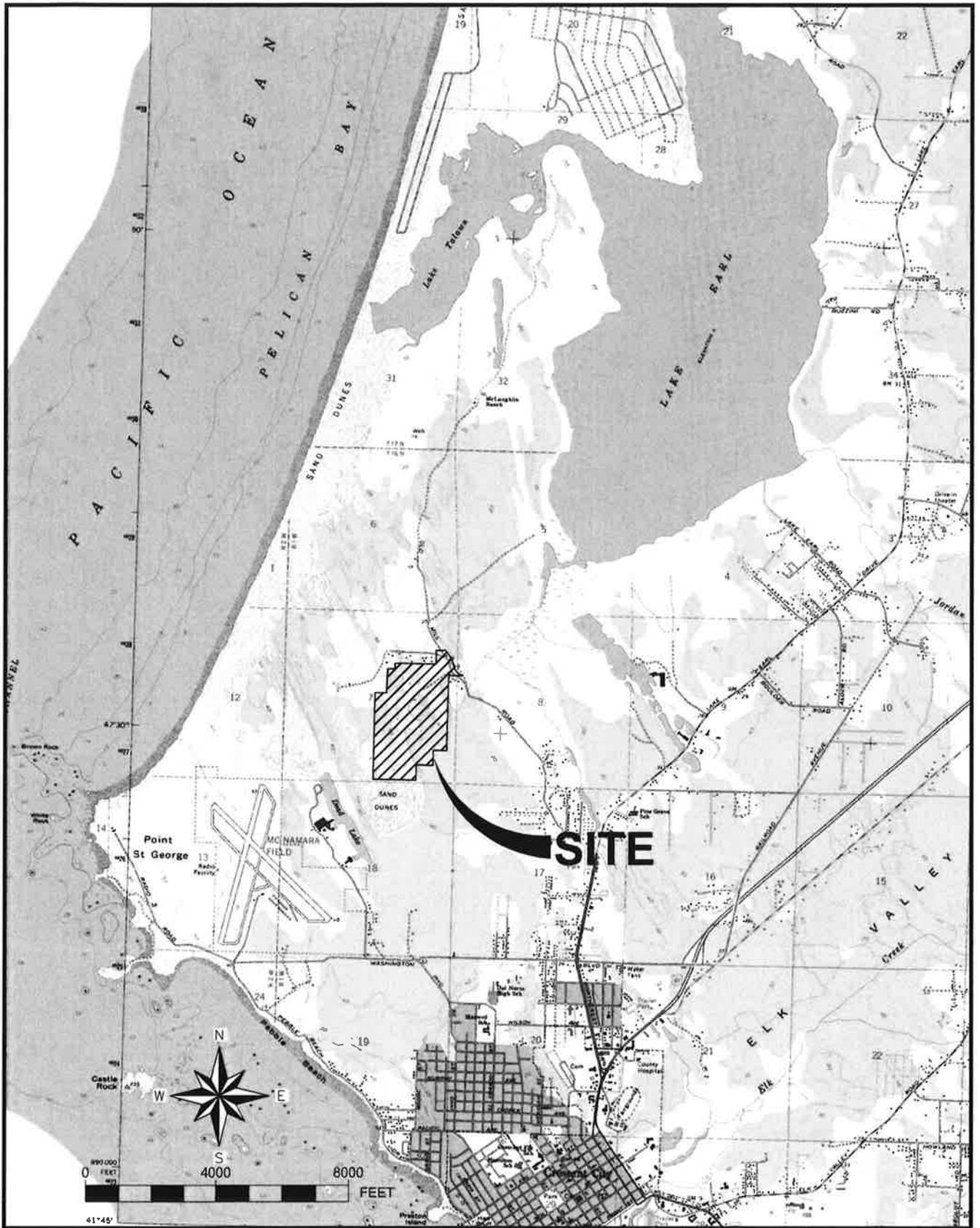
<b>DEPTH TO GROUNDWATER &amp; GROUNDWATER ELEVATIONS</b>				
<b>WELL</b>	<b>TOC ELEV</b>	<b>DTW</b>	<b>GW ELEV</b>	<b>DATE</b>
	feet MSL	feet TOC	feet MSL	
E -1 Deep	50.63	28.03	22.60	1/22/2018
E -1 Shallow	52.76	28.67	24.09	1/22/2018
E - 3 Deep	56.54	33.16	23.38	1/22/2018
E - 3 Shallow	57.65	31.26	26.39	1/22/2018
W-6W Deep	47.03	13.10	33.93	1/22/2018
W-6E Shallow	47.06	11.00	36.06	1/22/2018
E-2 Deep	26.86	4.70	22.16	2/12/2018
SM-6 Shallow	28.57	6.09	22.48	2/12/2018
W-8 Shallow	53.58	24.28	29.30	2/12/2018
W-9 Deep	61.07	22.40	38.67	2/12/2018
W-9 Shallow	53.13	8.00	45.13	2/12/2018
W-1E Deep	52.71	16.84	35.87	3/5/2018
W-1W Shallow	52.50	8.53	43.97	3/5/2018
W-2 Deep	32.77	3.63	29.14	3/5/2018
W-3S Shallow	43.76	4.75	39.01	3/5/2018
W-10 Shallow	45.42	7.30	38.12	3/5/2018
SM-7 Shallow	50.38	6.60	43.78	3/5/2018
E-4 Shallow	58.34	30.21	28.13	3/12/2018
E-4 Deep	57.94	37.55	20.39	3/12/2018

TABLE 2  
Summary of Current Monitoring Data - Crescent City Landfill

Point	Date	TDS (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Alkalinity (mg/L)	Conductivity (umhos/cm)	pH (units)	Nitrate (mg/L)	Fluoride (mg/L)	Bicarbonate (mg/L)	Carbonate (mg/L)	COD (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Manganese (mg/l)	Potassium (mg/l)	Sodium (mg/l)	Hardness (mg/l) Zinc (mg/L)	Arsenic (mg/L)	Nickel (mg/L)	Barium (mg/L)	Cobalt (mg/L)	Iron (mg/L)	
E-1_DEEP	01/22/18	530	51	<0.50	320	820	7.23	<0.10	<0.10	320	<1.0	14	42	52	1.5	4	22	0.0280	0.0120	0.0130	0.0150	<0.005	34.0000	
E-1_SH	01/13/18	269	14	<0.50	140	375	7.60	<0.10	<0.10	140	<1.0	<5.0	12	14	0.22	8.5	11	88	0.0083	0.0053	0.0140	<0.005	7.4000	
E-2_DEEP	02/12/18	571	43	<0.50	400	803	8.90	<0.10	<0.10	370	28	<5.0	75	66	0.44	4.2	19	460	0.0300	<0.005	0.0120	<0.005	0.0180	
E-3_DEEP	01/23/18	357	18	<0.50	200	497	8.20	<0.10	<0.10	200	<1.0	16	39	24	0.92	6.3	6.6	200	<0.005	<0.005	0.0100	<0.005	4.6000	
E-3_SH	01/22/18	492	31	2.5	310	693	8.30	4.3	<0.10	310	<1.0	<5	84	35	0.17	6.6	12	360	<0.005	0.0110	0.0084	<0.005	0.0150	
E-4_DEEP	01/12/18	371	17	3.5	240	521	7.20	1	<0.10	240	<1.0	<5.0	61	28	0.26	3.8	9.6	270	<0.005	0.0063	0.0540	<0.005	<0.015	
W-1W_SH (BKGR)	03/05/18	130	6.8	2.5	60	180.3	7.60	0.36	<0.10	60	<1.0	14	10	7.9	0.0013	0.48	6.6	59	<0.005	0.0062	<0.005	<0.005	0.0410	
W-1E_DEEP (BKGR)	03/05/18	271	27	<0.50	120	384	7.60	<0.10	<0.10	380	<1.0	16	33	12	0.12	1.3	11	130	<0.005	<0.005	0.0092	<0.005	2.2000	
W-2_DEEP	03/05/18	754	140	<0.50	400	1067	7.20	<0.10	<0.10	400	<1.0	33	93	92	7	0.96	16	610	0.0300	0.0210	0.0120	0.0069	9.2000	
W-3S_SH	03/05/18	178	18	3.1	85	252	7.77	<0.10	<0.10	81	<1.0	54	14	17	0.26	0.71	7.5	100	<0.005	0.0290	<0.005	<0.005	1.3000	
W-6E_SH	01/22/18	230	16	0.66	130	333	8.10	<0.10	<0.10	130	<1.0	<5.0	20	19	0.12	0.92	11	130	<0.005	<0.005	<0.005	<0.005	0.5300	
W-6W_DEEP	01/22/18	223	18	<0.50	120	320	7.80	<0.10	<0.10	120	<1.0	8	13	24	0.28	0.99	11	130	<0.005	<0.005	<0.005	<0.005	3.7000	
W-8_SH	02/12/18	164	12	1.2	91	235	7.90	<0.10	<0.10	90	<1.0	<5	16	15	0.03	0.82	6.2	100	<0.005	0.0098	<0.005	<0.005	0.9600	
W-9_SH (BKGR)	02/12/18	100	7.4	2.1	49	141.3	8.70	<0.10	<0.10	47	<1.0	15	32	10	0.026	0.97	5.8	51	0.0110	0.0260	<0.005	<0.005	1.5000	
W-9_DEEP (BKGR)	02/12/18	300	21	<0.50	160	425	7.40	<0.10	<0.10	160	<1.0	13	47	12	0.2	1.1	12	160	<0.005	0.0064	<0.005	<0.005	0.8000	
W-10_SH	03/05/18	161	5.4	3	76	228	7.60	<0.10	<0.10	76	<1.0	26	14	7.9	0.01	0.7	6.3	68	<0.005	<0.005	<0.005	<0.005	0.1700	
SM-6_SH	02/12/18	353	21	<0.5	220	510	7.97	<0.10	<0.10	220	1.9	25	47	25	0.88	5.6	14	220	<0.005	0.0280	0.0620	0.0069	1.8000	
SM-7_SH (BKGR)	03/05/18	167	23	2.1	71	237	8.10	<0.10	<0.10	70	<1.0	19	6.3	22	0.32	0.8	6.2	100	<0.005	0.0240	<0.005	<0.005	0.0450	
Tolerance Interval for Shallow Aquifer:		760	134	18	NE	960	6.7-9.3	NE	NE	272	NE	241	99	42	0.6	NE	42	NE	NE	NE	NE	NE	NE	NE

Notes: NS = Not sampled, NE = Not Established. Only VOC and metals that were detected are listed.  
Lawrence & Associates, 015063.00





**SITE LOCATION MAP**  
ADAPTED FROM USGS 15-MINUTE  
TOPOGRAPHIC QUADRANGLE: CRESCENT CITY

PROJECT NAME: CRESCENT CITY LF	PROJECT NO: 015063.00	DATE: 11/22/2018
CLIENT: DNSWMA	DRAWN BY: J. BEERS	<b>FIGURE 1</b>
SCALE: 1" = 4000'	CHECKED BY: B. LAMPLEY	





### TDS Time-Series Graphs, East to Southeast of Landfill

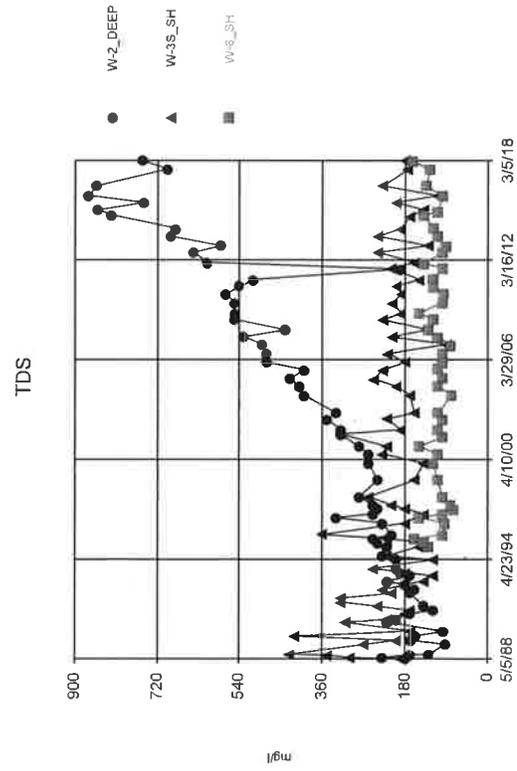
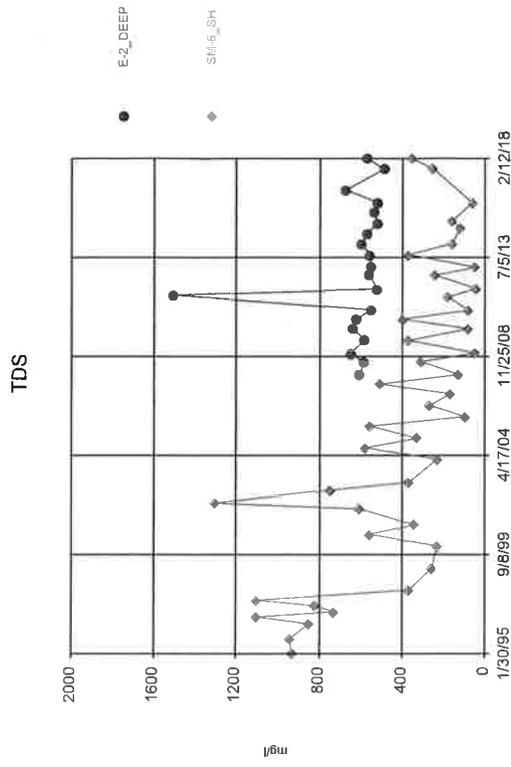
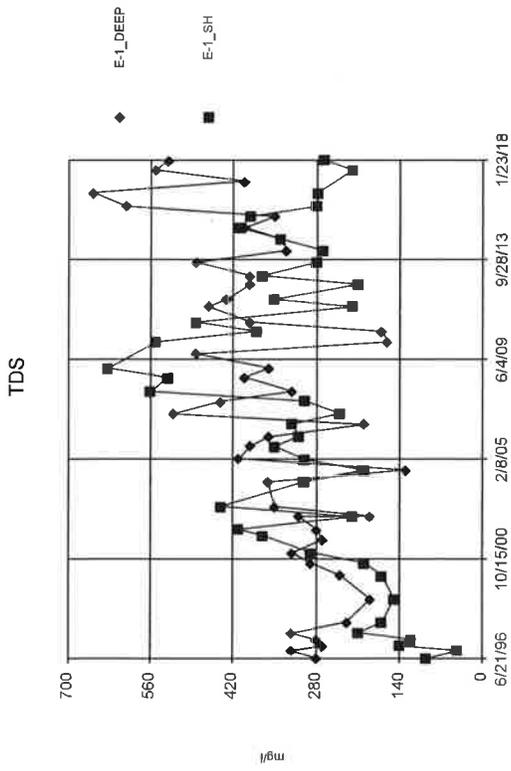
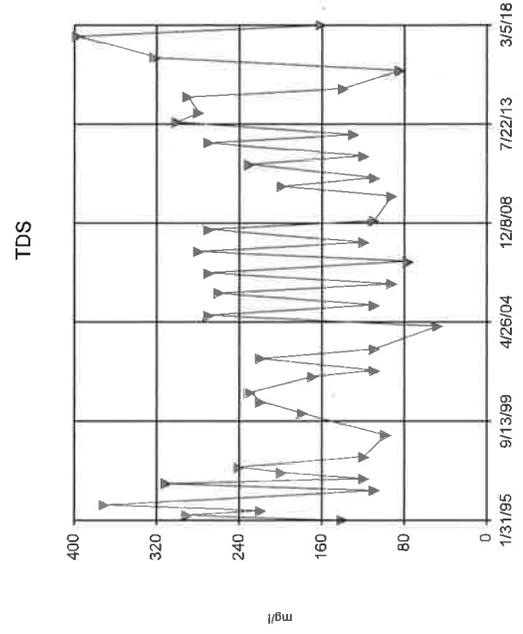
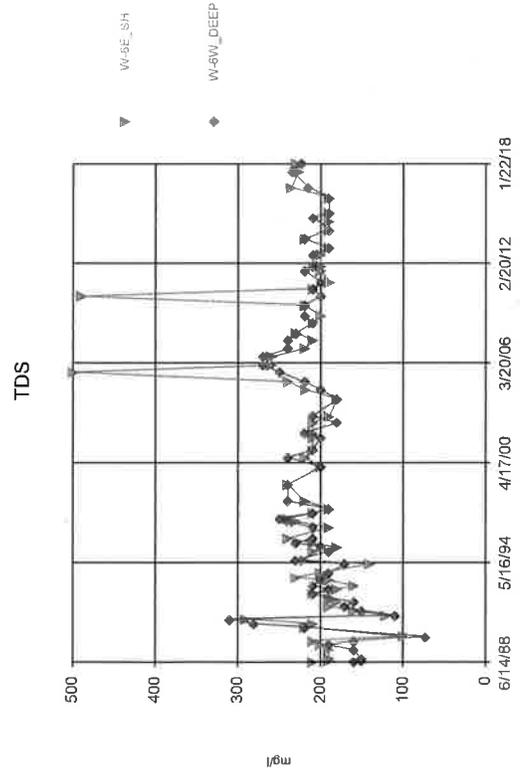
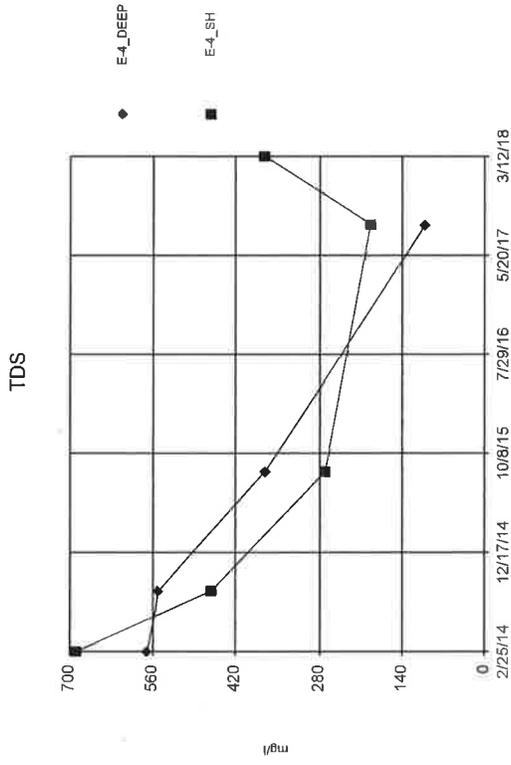
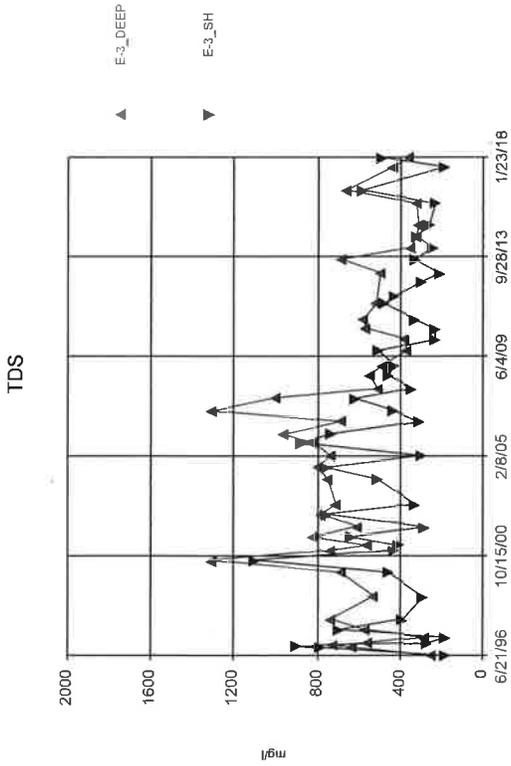


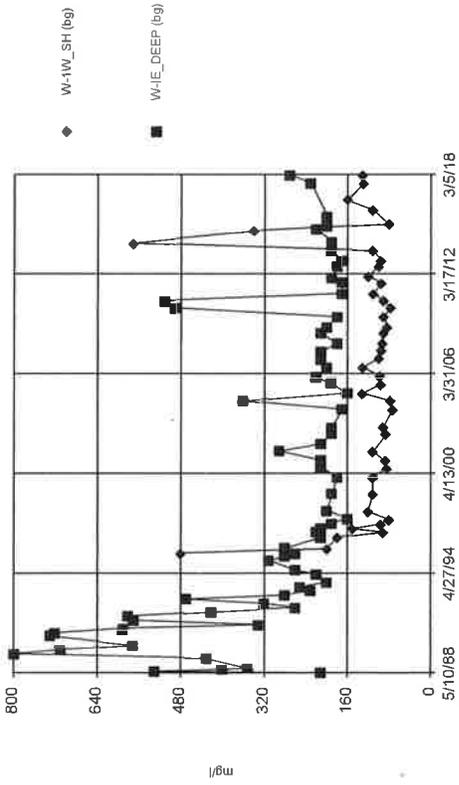
FIGURE 4

# TDS Time-Series Graphs, Northeast to North of Landfill



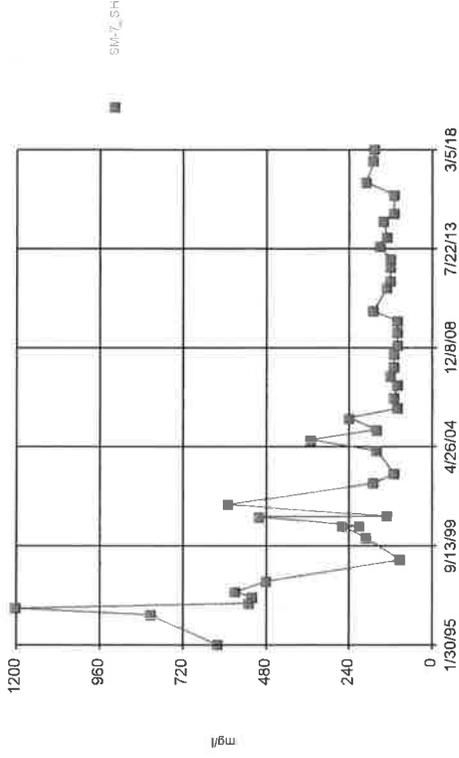
### TDS Time-Series Graphs, Upgradient of Landfill

TDS



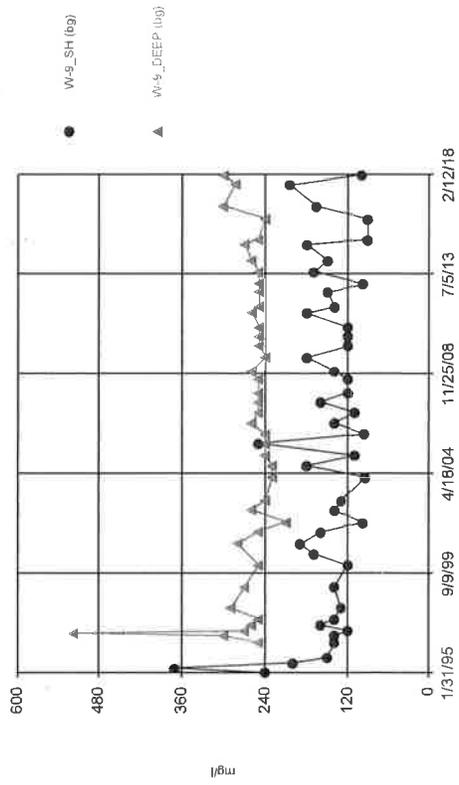
Time Series Analysis Run 11/19/2018 5:15 PM  
 Facility: Crescent City Landfill Data File: CCLF\_Stats

TDS



Time Series Analysis Run 11/19/2018 5:15 PM  
 Facility: Crescent City Landfill Data File: CCLF\_Stats

TDS



Time Series Analysis Run 11/19/2018 5:15 PM  
 Facility: Crescent City Landfill Data File: CCLF\_Stats

**ATTACHMENT A**  
**FIELD DATA & LABORATORY SHEETS**

need to  
23 in  
32.5 mrc

Source Pump	Description for Final map	NEW Measured Depth	Measured Depth feet	PURGE VOLUME	Date	Time	Initials of sampler	Temp °F	Specific Conductance (uS)	pH	Salinity	tds	Comments / Flow
gw/d	E-1 DEEP	56.25	2803	56	1-22-18	1:30	KS&EL	54.5	820	7.23	373	530	
gw/d	E-1 SH	33.08	2851	9	1-22-18	1:40	KS&EL	52.6	375	7.6	166	269	Dry @ .9
gw/d	E-2 DEEP	45.30	470	81	2-12-18	11:15	KS&EL	54.9	803	8.9	369	571	
gw/d	E-3 DEEP	58.60	330	51	1-22	2:15	KS&EL	54.5	497	8.2	226	357	
gw/d	E-3 SH	36.55	315	11	1-22	2:30	KS&EL	53.7	693	8.3	217	490	
gw/d	E-4 SH	39.40	302	18	3-12	11:45	KS&EL	53.9	521	7.2	233	371	Dry @: 5.4
gw/d	E-4 DEEP	69.97	375	63			KS&EL						Dry @ 3 43" tubing mrc
gw/d	W-1E DEEP	49.65	1654	65	3-5	10:37	KS&EL	53.6	384	7.6	170	271	Dry @: 21-
gw/d	W-6W DEEP	45.45	1512	65	1-22	3:30	KS&EL	51.5	220	7.8	140	223	Dry @: 32.5
gw/d	W-6E SH	37.00	1102	50	1-22	3:15	KS&EL	52.1	222	8.1	146	230	
gw/d	W-8 SH	39.18	2123	30	2-12-18	1:00	KS&EL	55.2	235	7.9	105	164	
gw/d	W-9 DEEP	68.95	2210	99	2-12-18	12:30	KS&EL	51.0	425	7.4	196	305	
gw/d	W-9 SH	20.52	80	25	2-12-18	12:15	KS&EL	52.0	141.3	8.7	629	100	
gw/m	W-1W SH	19.21	853	21	3-5	10:31	KS&EL	50.1	180.3	7.6	80.4	130	
gw/m	W-2 DEEP	25.35	363	38-	3-5	11:50	KS&EL	52.6	1067	7.2	489	754	Dry @: 13
gw/m	W-3S SH	21.00	475	33	3-5	12:40	KS&EL	48.3	252	7.77	110	178	
gw/m	W-10 SH	14.00	722	14-	3-5-18	9:54	KS&EL	50.1	7.6	228	99.9	161	
gw/m	SM-7 SH	18.54	660	25-	3-5	11:30	KS&EL	51.3	237	8.10	104	167	
gw/hose	SM-6 SH	13.00	609	14	2-12-18	11:50	KS&EL	52.1	510	7.97	224	353	Dry @: 5.5, .5
hose	L-3	60.91					KS&EL						
sw	S-1 Surface				2-1-18	10:55	KS&EL	52.7	184.2	9.1	82.5	131	
sw	S-2 Surface				2-1-18	10:30	KS&EL	53.4	234	7.86	105	165	
sw	S-3 Surface				2-1-18	12:00	KS&EL	42.8	188.1	8.9	74.2	172.4	

Working on a repair of well E-A DEEP

# COLLECTIONS CHANGE ORDER 16

**CONTRACT:** FRANCHISE AGREEMENT FOR SOLID WASTE AND RECYCLABLES COLLECTION SERVICES FOR CRESCENT CITY AND DEL NORTE COUNTY, CALIFORNIA

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**CONTRACTOR:** RECOLOGY DEL NORTE, INC.

**AUTHORITY:** DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY

**SUBJECT:** RATE ADJUSTMENT DUE TO INCREASED COSTS TO PROCESS & MARKET RECYCLABLES

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**NATURE OF CHANGES:** Under section 7.03 C of the agreement, the Authority's review of Recology Del Norte's request for a 6.12% rate increase concluded that though dramatic changes to processing costs were not anticipated under the Franchise Agreement, the Authority acknowledges that the costs to process and market recyclable materials as required under the Agreement have increased significantly, and many of these cost increases were beyond the control of the Contractor.

In consideration for unanticipated increased costs to process and market recyclable materials collected by Contractor under this Agreement, this Change Order authorizes a 6.12% increase to all trash and recycling collection rates and related service fees effective 01 July 2019 - in addition to changes to the Consumer Price Index as described in the Agreement. Brush collection rates will not be impacted by this Change Order.

Without additional charges for residential customers subscribed for 20 gallon trash cart collections (beyond the CPI-based increase and the 6.12% increase), Recology Del Norte will be allowed to provide 32 gallon carts to such customers in an effort to reduce contamination and service costs. After this Change Order is adopted, no new customers will be allowed to sign up for the 20 gallon trash service. In other words, the 20 gallon trash cart will be phased out, but customers who have subscribed to this service will be allowed to continue at the adjusted 20 gallon trash rate.

As a condition of the effectiveness of this Change Order, on or before 31 May 2019 Recology Del Norte will provide to the Authority Director documentation confirming either purchase or a secured lease of a facility in Del Norte County where recyclables can be unloaded, larger pieces of non-recyclable materials removed, and where such recyclables are reloaded and transported to be processed and marketed outside Del Norte County, to the extent processing outside Del Norte is necessary. If such a property is leased, the term of that lease will be at least through the term of the current Collections Franchise Agreement.

Starting in 2019, Recology will add four (4) additional Authority-allocated dumpsters specifically for cleanup events and activities, for cleanups on public property, or for cleanups ordered, directed, or overseen by a Code Enforcement Officer. These 4 additional dumpsters shall not be used for non-cleanup community events (e.g. Fair, Sea Cruise, Find Your Park, etc.) or bin pulls from the Gasquet or Klamath transfer stations. This change will result in a total of 25 Authority-allocated bins annually, provided that at least four such bins are used for cleanup events or activities.

The new collection rates will be calculated following the publication of the Consumer Price Index for all Urban consumers (CPI-U) in March 2019, and will be incorporated into the rate adjustments effective on 01 July 2019.

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**Contract Time:** Contract time remains unchanged. The rates and services described in this Change Order may be offered to customers within the Franchise area once this Change Order has been approved and executed.

**Contract Price:** This Change Order makes changes to the Contract Price that will be calculated and implemented effective 01 July 2019.

# COLLECTIONS CHANGE ORDER 16

*This Change Order is hereby approved:*

DATE: \_\_\_\_\_

RECOLOGY DEL NORTE, INC.

Del Norte Solid Waste Management Authority

BY: \_\_\_\_\_  
Michael J. Sangiacomo, President & CEO

BY: \_\_\_\_\_  
Blake Inscore, Chair

BY: \_\_\_\_\_  
Eli Naffah, Secretary

Approved as to form:

BY: \_\_\_\_\_

**REQUEST FOR PROPOSALS FOR  
PROFESSIONAL SERVICES  
for Site Identification, Assessment, and  
Environmental Review for a Small Volume Transfer  
Station to serve the communities of Smith River, the  
Tolowa Dee-ni' Nation and Fort Dick**



**FROM THE  
DEL NORTE SOLID WASTE MANAGEMENT AUTHORITY  
1700 STATE STREET  
CRESCENT CITY, CA 95531**

**DEL NORTE COUNTY, CALIFORNIA**

**(707) 465-1100  
(707) 465-1300 FAX  
E-MAIL: TEDD@RECYCLEDELNORTE.CA.GOV**

**PROPOSALS DUE: 28 JANUARY 2019**

6.1

## REQUEST FOR PROPOSALS

**For Professional Services for Site Identification, Assessment, and Environmental Review for a Small Volume Transfer Station to serve the communities of Smith River, the Tolowa Dee-ni' Nation and Fort Dick**

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**REQUEST FOR PROPOSALS for  
Professional Site Identification, Assessment, and Environmental Review for a  
Small Volume Transfer Station to serve the communities of Smith River, the  
Tolowa Dee-Ni Nation and Fort Dick Services for**

**I. PROJECT OVERVIEW**

The Del Norte Solid Waste Management Authority (hereinafter referred to as "DNSWMA" or the "Authority") requests proposals for professional services related to the identification, mapping, assessment, and environmental review of potential sites for a small-volume transfer station to serve the northern regions of Del Norte County.

Proposals must be received at the Del Norte Solid Waste Management Authority office at 1700 State Street, Crescent City, CA 95531, Attention: Director, by 4:30 P.M. on 28 January 2019.

The selected Contractor will be expected to familiarize itself with the layout and operations of small-volume transfer stations in Del Norte County. The Del Norte Solid Waste Management Authority intends to develop a transfer station to serve northern Del Norte County, including the communities of Fort Dick, Smith River, and the Tolowa Dee-ni' Nation Tribal Lands. The layout and operations of this new small-volume transfer station will likely be very similar to the facilities this agency currently operates in Klamath and Gasquet.

The deliverables under this Scope of Services are intended to be the basis for the Board of Commissioners' selection of a preferred site for the northern transfer station, and will include: identifying and assessing of properties, development of maps, environmental documents, and assistance with developing Requests for Proposals for final facility design, construction quality assurance, and permitting. This will include the Contractor developing a list of potential sites meeting initial screening criteria, mapping and assessing each of those sites under additional criteria and providing that information for presentation to the Board of Commissioners. After the Board selects not more than four sites for further evaluation, the Contractor will assist Authority staff on an hourly basis in negotiating Rights of First Refusal for the selected properties with the intent of negotiating a sales price for each selected property. Contractor will also assist Authority staff in development of a Request for Proposals to select an Engineering or appropriate design firm to design and produce preliminary construction documents, to:

- (a) obtain all necessary and appropriate land use approvals and grading and construction permits from all state and local agencies prior to construction, and
- (b) prepare final construction documents, and

- (c) draft and implement construction quality assurance plan and potentially additional tasks associated with implementing a mitigation implementation, monitoring and reporting program.

If interested, Contractor will also propose a contract amendment that (if accepted by the Authority) will have Contractor complete of an environmental document (including initial checklist, negative declaration, or mitigated negative declaration) addressing the requirements of the California Environmental Quality Act. By identifying alternative locations for this facility, the Authority intends to provide locational alternatives so a full environmental impact report will not be necessary.

Generally, small-volume transfer stations require a parcel of land two acres in size or larger, accessible by trucks hauling 40 cubic yard open-topped trailers which are parked below a paved area where customers can back-up, and unload into the open trailer below. It is likely that the property would need to be fenced or have other means of limiting public access when the facility would be closed.

## **II. PROPOSAL PROCESS**

### **A. Contact**

All requests for information regarding this RFP and for historical information relating to the small-volume transfer stations in Del Norte County should be directed to:

Tedd Ward, Director  
Del Norte Solid Waste Management Authority  
1700 State Street  
Crescent City, CA 95531  
Telephone: (707) 465-1100  
Fax: (707) 465-1300  
e-mail: [tedd@recycledelnorte.ca.gov](mailto:tedd@recycledelnorte.ca.gov)  
website: [www.recycledelnorte.ca.gov](http://www.recycledelnorte.ca.gov)

Each Proposer is advised to check that all parts of the RFP package have been received. The RFP is considered to include all items listed in the Table of Contents, the text of the RFP, the Exhibits, and any addenda issued by the Authority. Proposers will be responsible for informing themselves with respect to all conditions that might in any way affect the cost or the performance of any of the work. Each Proposer is responsible for obtaining any and all information it deems necessary to make its proposal. The Authority does not assume any liability for actions taken pursuant to data contained in this RFP. Checking the accuracy and completeness of the information is the responsibility of the Proposer. Failure to do so will be at the sole risk of the Proposer and no relief will be given for errors or omissions by the Proposer.

**B. Distribution List for RFP**

The initial RFP mailing list is attached as Exhibit B.

**C. Questions Regarding this Request for Proposals**

All questions must be directed to the Authority's contact person identified in section II.A. of this RFP. All questions related to this RFP received by Authority staff on or prior to 14 January 2019 will be answered. Questions of minor significance may be discussed verbally, however, only responses by addendum will be considered to be part of the Request for Proposals. For questions determined by Authority staff to require a response be sent to all proposers, potential Proposers will receive a response by e-mail or FAX as an addendum to this Request for Proposals by 21 January 2019. All Proposers that were sent an RFP by the Authority will be mailed or faxed the addenda.

**D. Proposal Rules**

The following rules apply to the submission of proposals:

1. All proposals must be submitted in writing and in accordance with the requirements of this Request for Proposals.
2. Four **copies** of the proposal must be mailed or delivered in a sealed package, to the above noted address. **The package must be received at the Authority's offices by 4:30 p.m. on Monday, 28 January 2019.** The package must be clearly labeled on the outside and inside with the name of the firm submitting the proposal and the address stated above (with the words: "**Northern Transfer Station Site Assessment Proposal**") on the package). One of the copies of the proposal must be unbound and single sided to ease further copying, and this copy shall be labeled 'Original.' This 'Original' copy will govern in the event of any inconsistency among copies of the proposal.
4. Each proposal must be typed or printed on 8 1/2" by 11" paper, double-sided, (except as noted above) or if larger paper is required, it must be folded to 8 1/2" by 11". Paper should be at least 30% post-consumer recycled content.
5. Each proposal shall include all information required by the RFP and any addenda. Addenda may be issued prior to the opening of proposals for the purpose of changing or clarifying the intent of the RFP. All addenda will be binding in the same way as if originally written in this RFP. Any interpretation, affecting all Proposers, made prior to the bid due date will be issued in the form of an addendum. The Authority will not be bound by, or responsible for, any other explanations or interpretations of the RFP package other than those given

in writing as set forth in this paragraph. Oral instructions, interpretations, or representations will not be binding upon Authority or Authority's representative. If the Authority issues addenda to this RFP, each Proposal will include a signed Receipt of Addenda form, which will be issued with the addenda.

6. Proposals may not be changed, modified, or withdrawn after the time and date specified for submittal. Partial or incomplete proposals, or any falsehood or misrepresentation contained within a proposal may be grounds for disqualification.
7. Proposals received after the required submittal date and time will be rejected and returned unopened unless no other proposals were submitted on time. The Authority will not in any manner be liable or responsible for any late delivery of proposals. Unless specifically requested by the Authority for clarification, the Authority will not accept any clarifications, revisions or addenda to submitted proposals after the submission deadline. No telegraph, facsimile or telephone proposals or addenda to proposals will be acceptable.
8. Proposals must be in U.S. dollars inclusive of all costs such as, but not limited to: insurance, equipment, temporary facilities, supervision, mobilization/demobilization, profit, overhead, and taxes. All other direct and indirect costs associated with the work including, but not limited to, allowances for weather, absenteeism, holidays, equipment failure, travel time and any other applicable costs must also be included in proposal.
9. Prior to contract award for work described herein, the Authority will conduct investigations as necessary to determine the performance record and ability of each Proposer to perform the work included herein at the least cost to Authority ratepayers. Upon request, the Proposer must submit additional information deemed necessary by the Authority to evaluate the Proposer's qualifications.

#### **E. Confidential Information**

Any material that Proposer contends is exempt from disclosure to the public under the California Public Records Act (i.e., trade secrets, financial information, etc.) must be clearly marked on each page as "confidential". Providing those materials marked are exempt, to the extent allowed by law, the Authority will not disclose the marked information other than to Authority officers, attorneys, employees and consultants involved in evaluating the proposals received.

#### **F. Evaluation Process**

Each proposal will be evaluated by Authority staff, for completeness and for compliance with the requirements of this RFP. All determinations with regard to the

evaluation of proposals will be at the sole discretion of the Authority.

The objective of the Authority is to determine the most cost-effective option for assembling, presenting, and assessing information and analysis for the tasks described in each section of the scope of services. Toward this end, the Authority will consider all relevant factors, including, but not limited to:

- Proposer's qualifications and experience;
- References and related comments;
- Comments on Project Schedule;
- Unique or Innovative Approaches of the Proposal;
- References from existing or prior clients
- Price Proposal

In addition to the evaluation of the specific elements of the proposal, the Authority retains the right to evaluate all potential costs, services, and related factors which may affect the ratepayers for the term of the contract and any extensions, or potential liabilities that could extend beyond the term of the agreement. **The Authority reserves the right to select a Proposal other than the lowest cost Proposal.** If many proposals are received, the Authority may develop a short list of "Finalists" which will be asked to submit additional information for the final consideration of the Authority.

Exhibit C to this RFP provides a sample of how evaluation scores will be compiled. Price proposals for task C1 will be the hourly rate proposed for that task times a presumed 60 hours of effort. Actual required effort may be less or more than this estimate. Comparative evaluation of price proposals will be equal to the average of all price proposals from the responsive proposals received divided by the price proposal being evaluated times the weighting.

#### **G. Recommendation to Board of Commissioners**

Authority staff will make a recommendation to the Authority's Board of Commissioners. All proposers will be advised of staff's recommendation. Any proposer that disputes the fact that the recommended proposer is qualified per the RFP requirements or who has a complaint regarding the process, must submit a protest letter to the Authority Director by way of personal delivery, USPS mail or private courier, or fax within 5 business days of the date of the notification communication (not the date received). The Authority Director will then have three business days to respond to the protest. If the proposer is not satisfied with the Director's response, the proposer may submit an appeal to the Board of Commissioners for final resolution.

### **III. EXISTING CONDITIONS**

The following background information is provided for the convenience of

30 November 2018

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potential Proposers. Each Proposer is responsible for obtaining any and all information it deems necessary to make its proposal.

**A. General Background regarding small-volume transfer stations**

The Del Norte Solid Waste Management Authority is seeking proposals for professional services to assist with the mapping, assessment, evaluation and environmental permitting of potential sites for a small-volume transfer station to serve the communities in the northern regions of Del Norte County. When developed, the northern transfer station is envisioned to operate in a manner similar to the Authority's existing small-volume transfer stations in Klamath and Gasquet. Similarities will likely include grading and paving to create unloading bays above three open-topped 40 cubic yard dumpsters, using a similar traffic layout with a small gate shack.

Most of the year, the Klamath transfer station is open on Sundays and Wednesdays from 10 AM – 4 PM, and the Gasquet transfer station is open on Saturdays from 10 AM to 4 PM. Between July and September, Klamath is also open on Fridays, and Gasquet is open on Thursdays. The facilities in Klamath and Gasquet are without power, running water, sewer hookup, or reliable cell phone coverage. Similarly, staff envision this northern transfer station initially being open not more than three days per week.

**IV. SCOPE OF SERVICES**

All work performed by Contractor and its employees pursuant to this Agreement will be performed promptly and diligently and in a manner consistent with the standards of care, diligence and skill exercised by recognized environmental engineering and consulting firms for similar services, and in accordance with all regulatory and good management standards, and in a good, safe and workmanlike manner. Contractor will be responsible to ensure that all work performed by its employees or any subcontractors is performed to the standards set forth in this RFP and that such work complies with requirements of appropriate governmental agencies and applicable law.

All services required under this RFP will be performed by Contractor personnel, and all personnel will possess the qualifications, permits and licenses required by State and local law to perform such services. Proposals may indicate additional subcontractors (e.g. real estate agents, wetlands or biological experts, etc.) that may be hired as needed to complete the Scope of Services. As environmental professionals, Contractor(s) are expected to be familiar with all current applicable laws and regulations, and any staff expenses to become familiar with laws and regulations will not be billable to any task described in this RFP.

To assist with site identification and mapping, the selected Contractor will be provided a KMZ file generated from a standard GIS shapefile of the County's AP information. The KMZ file provides pertinent metadata including the APN and the area in square feet of the parcel. The KMZ clamps to the ground allowing for basic georeferencing of assessor's parcels along with metadata for uses requiring low precision mapping and reference. Some parcel information may be outdated or inaccurate as AP boundaries are subject to change from the date of KMZ creation.

The Authority uses and requests that deliverables produced under this scope of services use the following Windows-compatible software: Microsoft Office, or Corel WordPerfect and ArcView. Draft deliverables may be submitted as electronic Word documents, and images may be submitted in pdf format.

The Authority requests proposals for a professional services Contractor to provide the following services:

***A. Kickoff, Initial List, First Tier Assessment & Mapping***

This project will begin with a kickoff meeting between the Contractor and the Authority Director and staff to review background documents and web-based resources related to small-volume transfer stations, including the Klamath and Gasquet transfer stations. During this meeting, Contractor will receive a copy of the KMZ file, and the Director and Contractor will review the scope of work and schedule including a review and possible revision or amendment of the First and Second Tier Criteria to be used to assess each potential site.

Contractor will then develop a list of between twelve and eighteen potential properties (or all properties meeting these criteria if there are fewer than twelve). Each listed property will meet the following First Tier Criteria:

- North of Dr. Fine Bridge, South of Clifford Kampf Park, East of US 101 and accessible via relatively short route (<5 miles) from 101 along paved roads
- Zoned Commercial (C-3, C-4) , Manufacturing and Industrial (M), or Public Facility (PF)
- Total land area of between 2 and 15 acres total, with at least 1.5 acres of land that can be graded for a public unloading area, with potential for grading a height difference of not less than 8 feet across the property.
- Owner is potentially interested in selling, or the property could otherwise be acquired (e.g. through receivership or tax lien sale) for use as a Northern Transfer Station.

**Deliverable A:** Contractor will then list and map each property meeting the First Tier Criteria. Contractor will prepare a single color map indicating the location of each property listed under Deliverable A. The list will be in the form of a table summarizing the following information for each property to the extent such information is available:

1. Address, assessor's parcel number(s), and GPS coordinates (near the center of each property)
2. Total acreage and total existing paved acreage
3. Respective driving distances from US 101, the Smith River Post Office, and Howonquet Hall
4. Qualitative comparison of improvements to property, existing structures that do not require demolition (if any), and an estimate of the usable floorspace in such structures.
5. The A list will include an appendix containing information and notes pertaining to each property gathered from relevant real estate listings or other public sources of information. Another appendix will list some parcel numbers for properties eliminated from further analysis based on the first tier criteria.

#### ***B. Second Tier Assessment & Recommended Alternatives***

Contractor will next assess each property listed in Deliverable A using additional Secondary Criteria. Initial environmental and grading assessments for these criteria are understood to be planning-level estimates subject to significant uncertainties. The Secondary Criteria for each property will include:

1. Potential for grading areas for 3 loading bays at least 8 feet below unloading areas without creating areas where stormwater could pond
2. Access to water, sewer, phone and cellular services
3. Description of existing structures and improvements to property
4. Assessment of and potential use or disposition of existing structures and improvements, including a narrative description of all major areas of work (demolition, pavement removal, etc.) necessary prior to grading.
5. Approximate area of wetlands and estimated limits and acreage of likely or possible wetlands setbacks (if any). Contractor should be aware that a significant portion of the planning area is located within the boundary of the California Coastal Zone and as such has a different standard for wetland assessments.
6. Approximate areas of environmentally sensitive habitat areas (ESHA's), easements, associated setbacks & total Estimated Usable Acreage. The Del Norte County Local Coastal Program provides guidance with respect to ESHA identification and buffers.
7. Discussion of how stormwater flows (or could flow) across site during heavy rains

8. Estimated area and volume of material to be graded, and estimated volume of fill material needed for or generated by grading
9. Estimated area of additional pavement necessary
10. Known issues which could impact negotiations for purchase or acquisition, such as proximity to neighbors, depth to groundwater during winter, known sensitive species or habitats, additional property-specific permit requirements, or challenges associated with property ownership or access.
11. Planning-level estimates of purchase price range based on asking price or estimated cost-per acre and acreage of each parcel.

**Deliverable B1:** Contractor will then list and map between two and four properties most favorably meeting the Second Tier Criteria. The list will be in the form of a table summarizing the following information for each property to the extent such information is available:

1. Assessor's parcel number(s) or other property identifier
2. Nearest location for accessing water, sewer, phone and cellular services
3. Estimated usable acreage
4. Estimated area and volume of grading needed
5. Estimated area of additional pavement necessary
6. Qualitative comparison of likely grading and/or paving effort and other known issues, including approximate height difference across property, noting any environmentally sensitive or wetland habitats, or known endangered or sensitive species on the property, and a planning-level estimate of the volume of grading likely necessary

**Deliverable B2:** Contractor will then draft and submit to Authority staff a written Initial Site Assessment Report, including a narrative comparing the properties described under Deliverable A, a narrative summarizing the secondary criteria-based comparative assessment of each property, and the respective and relative potential advantages of each of between two and four sites recommended for further analysis.

**Deliverable B3:** Contractor will meet with Authority staff to present and discuss Deliverables B1 and B2, and to discuss other details discovered during site investigations but not necessarily included in the written report such as ownership, asking price or estimated market value of each property.

Within two weeks of receiving Authority staff's written comments on Deliverables B1 and B2, Contractor will prepare a final version of this report for presentation to the Authority Board of Commissioners. The Final Northern Transfer Station Site Assessment Report will include a separate map for each site recommended for further assessment, including indicators for areas of possible wetlands, sensitive species or habitats. Maps will also indicate locations of any water,

sewer, septic, or power availability for each site. Notes on each site map will indicate current level of coverage by cell phone providers.

The Authority Director will present the Final Northern Site Assessment Report to the Authority Board of Commissioners. The current target date for this presentation is Tuesday 16 July 2019. Contractor will attend that meeting and be available to answer questions from Commissioners.

### ***C. Assistance Negotiating Multiple Rights of First Refusal***

**Deliverable C:** Contractor will assist Authority staff and legal counsel in negotiating and purchasing Rights of First Refusal to Purchase each of the properties designated by the Authority Board. Work on this task will be driven by Authority staff, and is anticipated to begin sometime after Deliverable A is submitted, overlapping with one or more of the B tasks. Contractor will not act as an agency representative during these negotiations. Services are anticipated to include review and comment regarding related documents and consultation with staff and legal counsel, but will not include the drafting or revising of these documents.

Work on this task will be paid on an hourly basis at the hourly rate proposed on the completed form attached as Exhibit A. Price proposals for task C1 will be the hourly rate proposed for that task times a presumed 60 hours of effort. Actual required effort may be less or more than this estimate.

### ***D. Assistance Developing Design & Engineering Request for Proposals***

**Deliverable D1:** Assist Authority staff in development of a Request for Proposals to select an Engineering or appropriate design firm to design and produce preliminary construction documents, all necessary and appropriate permitting prior to construction, final construction documents, and to draft and implement construction quality assurance plan and potentially additional tasks associated with implementing a mitigation implementation, monitoring and reporting program.

**Task D2:** This task is to propose an amendment to the Contractor's Service Agreement to complete the checklist and associated draft and final versions of an environmental document necessary to comply with the California Environmental Quality Act, (which Authority staff are presuming will likely be a

mitigated negative declaration) including analysis of some alternative locations or site plans to reduce potential negative environmental impacts. Part of the intent of selecting at least three alternative locations for this facility is to provide locational alternatives so a full environmental impact report will not be necessary.

Contractor will not be paid separately for the task of drafting the contract amendment, and the Authority is not obliged to accept the amendment as proposed. If accepted, Contractor will be paid for the work described in the contract amendment, but will not be paid for drafting the contract amendment. If Contractor opts to omit this task, Authority staff will separately procure a consultant to complete this work. This additional work was not included in the Scope of Services as the criteria assessment and selection of target properties will help identify the level of expertise and depth of analysis likely required for the environmental review.

Should the Authority reject the amendment proposed by Contractor under Task D2 and choose not to negotiate with Contractor for such services, Contractor will still be allowed to submit other proposals to the Authority to provide additional services related to this project.

## **V. PROPOSAL REQUIREMENTS**

The Authority invites proposals from companies qualified to provide the requested services described in the preceding sections. The contents and pricing structure of the selected Proposal, this Request for Proposals, and opinions from relevant legal counsels will form the initial basis for negotiating an Agreement for the selected Contractor. The contents of each proposal should address each of the topics from the headings within this Section of the RFP.

### **A. *Project Schedule & Price Proposal***

Each responsive proposal must include a completed version of Exhibit A. Price proposals for tasks A, B, and D1 will be a lump sum to complete tasks and deliverables. Monthly invoicing for these tasks will be on a % complete basis. The price proposal for task C will be a single hourly rate. Comparative evaluation of proposals will assume that this task will be completed in 60 hours, though the actual billable Contractor hours required for this task may be less or more than this estimate. Proposers are invited to indicate different dates than those requested in Exhibit A, and identify any reasons for proposing any adjustments for later dates on any deliverables.

Exhibit A must be completed for all tasks and submitted, along with a Billing Rate Sheet describing the hourly rates for all project personnel and services, which will be the basis for invoices submitted for the duration of this project.

**B. Qualifications**

1. Experience

Proposals must demonstrate the capacity for the Proposer to complete the Scope of Services. This includes demonstrating the Proposer's work experience providing similar or related services. Proposers should particularly highlight experiences related to mapping, property assessment, environmental permitting.

2. Organization Chart, and Resumes of Key Officers and Project Team Leaders

Proposals must include summary resumes of key staff of the Proposer, describe their role in the proposed project and provide an organizational chart for this project. Provide a complete resume of the project manager and other key members of the Proposer's team. As the Authority considers the qualifications of the project manager to be of critical concern, the Authority reserves the right to terminate the contract if project manager or staff changes for this project if such changes are not satisfactory to the Authority.

3. References

Proposals must also include at least three references, including one or more similar or related projects. References will include a brief description of the work completed by the Proposer, the start and end-dates of those projects, worksite address, and names and phone numbers of persons, agencies, or businesses who can comment on the referenced work activities and deliverables.

### **C. Approach**

Proposals should describe any unique, creative, or more effective aspects of the Proposer's approach to completing each of the tasks in the Scope of Services. Suggestions to modify the requested Scope of Services are welcome, but must be stated clearly within the proposal. Proposals may also include optional tasks or additional optional related services to improve or reduce the cost to complete the requested services. However, proposers are advised to include all tasks described in Section IV. The Authority reserves the right, at its discretion, to include or exclude such optional services from the negotiated Agreement for the services described within this RFP.

## **VI. EXHIBITS AND FORMS**

All documents of this RFP, including Exhibits, are included in the CD-ROM included with this RFP.

Exhibit A: RFP Schedule, Price Proposal Form

Exhibit B: Initial Mailing List for this RFP

Exhibit C: Sample Proposal Evaluation Form

Request for Proposals for Northern Transfer Station Site Assessment Services

**Exhibit A Project Timeline & Price Proposal**

	Request	Proposed	Price Proposal
Release RFP	30-Nov-18		
RFP Questions	14-Jan-19		
Proposals Due	28-Jan-19		
Contractor Selected	19-Feb-19		
Contract signed	8-Mar-19		
Deliverables			
A	Kickoff Meeting 11-Mar-19 A - First Criteria Assessment & Maps 7-May-19 B1 - Second Criteria Assessment & Maps 4-Jun-19 B2 - Draft Initial Site Assessment Report 4-Jun-19 C1 - Negotiating Support B3 - Final Assessment Report 9-Jul-19 B4 - Presentation to DNSWMA Board 16-Jul-19		A: \$ _____ lump sum B: \$ _____ lump sum
B	Selection of Target Properties by DNSWMA 20-Aug-19 ?		
D	D1 - Draft RFP for Design & Engineering D2 - Proposed Amendment for Completion of Environmental Document (included)		D1: \$ _____ lump sum
C	Hourly Rate for Task C1: \$ _____ / hour x 60 hours		\$ _____ (for 60 hours)
<b>Total Price Proposal A + B + D1 + C</b>			\$ _____

Request for Proposals for Northern Transfer Station Site Assessment Services

**Exhibit B Initial Mailing List for RFP**

Contact	Firm	Address	City	State	Zip
Kiera Freeman	Freeman Biological	6600 Lower Lake Road	Crescent City	CA	95531
Ward Stover	Stover Engineering	711 H Street	Crescent City	CA	95531
Craig Strong	SHN Consulting Engineers	812 W Wabash Ave	Eureka	CA	95501
Mike Nelson	Crescent Coastal Research	260 Hazeltine Road	Crescent City	CA	95531
Dirk Pedersen	LACO Associates	21 West 4th street	Eureka	CA	95502
George Williamson	Stillwater Sciences	850 G Street, Suite K	Arcata	CA	95521
	GHD	783 3rd Street	Eureka	CA	95501
	Planwest Partners	1125 16th St., Suite 200	Arcata	CA	95521

Request for Proposals for Northern Transfer Station Site Assessment Services

**Exhibit C Sample Proposal Evaluation Form**

	Weighting	Proposal A		Proposal B		Proposal C	
		Raw score	Evaluation	Raw score	Evaluation	Raw score	Evaluation
Project Schedule	5%	10	0.5	10	0.5	8	0.4
Technical Qualifications	15%	10	1.5	7	1.05	5	0.75
Team Leader + Org Chart	5%	9	0.45	8	0.4	5	0.25
References	20%	8	1.6	10	2	8	1.6
Approach	20%	8	1.6	6	1.2	8	1.6
Price Proposal*	35%	\$ 30,000	0.578	\$ 12,000	1.444	\$ 10,000	1.733
<b>Overall evaluation</b>	<b>out of 10</b>		<b>6.228</b>		<b>6.594</b>	<b>Recommended proposal</b>	<b>6.333</b>

\* The evaluation for each price proposal is equal to the average of all price proposals divided by the price proposal times the weighting.