

Sunshine Coast Regional District

Request for Proposal

Number: 2365003

for

Engineering: Bike Park / Pump Track Development at Sprockids Park

Issue Date:

April 27, 2023

Closing Date of

June 8, 2023 at 3:00 PM local time

OPTIONAL SITE MEETING: A site meeting will be held on Wednesday May 24, 2023 at 1:00 pm local time at Sprockids Bike Park 1235 Stewart Road, Gibsons, BC. Pronents will need to RSVP to purchasing@scrd.ca by noon on May 23, 2023. If no RSVP's are received the site meeting will be cancelled.

CONTACT: All enquiries related to this Request for Proposals, including any requests for information and clarification, are to be submitted by May 26, 2023 and directed, in writing, to purchasing@scrd.ca, who will respond if time permits with a Q&A on BCBid by June 1, 2023 Information obtained from any other source is not official and should not be relied upon. Enquiries and any responses providing new information will be recorded and posted to BC Bid or otherwise distributed to prospective Proponents.

DELIVERY OF PROPOSALS: Proposals must be in English and must be submitted using one of the submission methods below, and must either (1) include a copy of this cover page that is signed by an authorized representative of the Proponent or (2) be submitted by using the e-bidding key on BC Bid (if applicable), in accordance with the requirements set out in the RFP.

BC Bid Electronic Submission: Proponents may submit an electronic proposal using BC Bid. Proposals must be submitted in accordance with the BC Bid requirements and e-bidding key requirements (found at https://www.bcbid.gov.bc.ca/). Only pre-authorized electronic bidders registered on the BC Bid system can submit an electronic proposal using the BC Bid system. Use of an e-bidding key is effective as a signature. **OR**

Email Submission: Proponents may submit an electronic proposal by email. Proposals submitted by email should be submitted to submissions@scrd.ca in accordance with the instructions at Section 1.3 of the General Terms and Conditions of this RFP.

Regardless of submission method, proposals mus be received before Closing Time to be considered.

A proposal is deemed to incorporate the Confirmation of Proponent's Intent to Be Bound below, without alteration.

CONFIRMATION OF PROPONENT'S INTENT TO BE BOUND:

The enclosed proposal is submitted in response to the referenced Request for Proposal, including any Addenda. By submitting a proposal the Proponent agrees to all of the terms and conditions of the RFP including the following:

- a) The Proponent has carefully read and examined the entire Request for Proposal;
- b) The Proponent has conducted such other investigations as were prudent and reasonable in preparing the proposal; and
- c) The Proponent agrees to be bound by the statements and representations made in its proposal.

PROPONENT NAME (please print):
NAME OF AUTHORIZED REPRESENTATIVE (please print):
SIGNATURE OF AUTHORIZED REPRESENTATIVE:
DATE:

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1. GENERAL TERMS & CONDITIONS

1.1 **DEFINITIONS**

Throughout this Request for Proposal, the following definitions apply:

"Addenda" means all additional information regarding this RFP, including amendments to the RFP;

"BC Bid" means the BC Bid website located at https://www.bcbid.gov.bc.ca/;

"Closing Location" includes the location or email address for submissions indicated on the cover page of this RFP, or BC Bid, as applicable;

"Closing Time" means the closing time and date for this RFP as set out on the cover page of this RFP;

"Contract" means the written agreement resulting from the RFP executed by the Regional District and the successful Proponent;

"Contractor" means the successful Proponent to the RFP who enters into a Contract with the Regional District;

"Must", or "mandatory" means a requirement that must be met in order for a proposal to receive consideration; "Proponent" means a person or entity (excluding its parent, subsidiaries or other affiliates) with the legal capacity to contract, that submits a proposal in response to the RFP;

"Proposal" means a written response to the RFP that is submitted by a Proponent;

"Request for Proposals" or "RFP" means the solicitation described in this document, including any attached or referenced appendices, schedules or exhibits and as may be modified in writing from time to time by the Regional District by Addenda; and

"Should", "may" or "weighted" means a requirement having a significant degree of importance to the objectives of the Request for Proposals.

"SCRD", "Regional District", "Organization", "we", "us", and "our" mean Sunshine Coast Regional District.

1.2 FORM OF PROPOSAL

This Proposal must be completed in its entirety. Failure to properly complete this Proposal form may cause your Proposal to be rejected. The signing officer must initial all corrections. The Sunshine Coast Regional District (Regional District) reserves the right to permit a correction, clarification or amendment to the Proposal or to correct minor errors and irregularities.

1.3 SUBMISSION OF PROPOSAL

- a) Proposals must be submitted before Closing Time to the Closing Location using one of the submission methods set out on the cover page of this RFP. Proposals must not be sent by fax. The Proponent is solely responsible for ensuring that, regardless of submission method selected, the Regional District receives a complete Proposal, including all attachments or enclosures, before the Closing Time.
- b) For electronic submissions (BC Bid or email), the following applies:

- (i) The Proponent is solely responsible for ensuring that the complete electronic Proposal, including all attachments, is received before Closing Time;
- (ii) The Regional District limits the maximum size of any single email message to 20MB or less.
- (iii) Proponents should endeavour to submit emailed proposal submissions in a single message and avoid sending multiple email submissions for the same opportunity. If an electronic submission exceeds the applicable maximum single message size, the Proponent may make multiple submissions (BC Bid upload or multiple emails for the same opportunity). Proponents should identify the order and number of emails making up the email proposal submission (e.g. "email 1 of 3, email 2 of 3...");
- (iv) For email proposal submissions sent through multiple emails, the Regional District reserves the right to seek clarification or reject the proposal if the Regional District is unable to determine what documents constitute the complete proposal;
- (v) Attachments must not be compressed or encrypted, must not contain viruses or malware, must not be corrupted, and must be able to be opened using commonly available software (e.g. Adobe Acrobat). Proponents submitting by electronic submission are solely responsible for ensuring that any emails or attachments are not corrupted. The Regional District has no obligation to attempt to remedy any message or attachment that is received corrupted or cannot be viewed. The Regional District may reject proposals that are compressed encrypted, cannot be opened or that contain viruses or malware or corrupted attachments.
- c) For BC Bid e-submissions only pre-authorized e-bidders registered on BC Bid can submit electronic bids on BC Bid. BC Bid is a subscription service (\$150 per year) and the registration process may take two business days to complete. If using this submission method, Proponents should refer to the BC Bid website or contact BC Bid Helpdesk at 250-387-7301 for more information. An electronic proposal submitted on BC Bid must be submitted using the e-bidding key of an authorized representative of the Proponent. Using the e-bidding key of a subcontractor is not acceptable.
- d) For email proposal submissions, including any notices of amendment or withdrawal referred to in Section 1.6, the subject line of the email and any attachment should be clearly marked with the name of the Proponent, the RFP number and the project or program title.
- e) The Regional District strongly encourages Proponents using electronic submissions to submit proposals with sufficient time to complete the upload and transmission of the complete proposal and any attachments before Closing Time.

- f) The Proponent bears all risk associated with delivering its Proposal by electronic submission, including but not limited to delays in transmission between the Proponent's computer and the Regional District Electronic Mail System or BC Bid.
- g) While the Regional District may allow for email submissions. the Proponent acknowledges that email transmissions are inherently unreliable. The Proponent is solely responsible for ensuring that its complete email proposal submission and all attachments have been received before Closing Time. If the Regional District Electronic Mail System rejects an email proposal submission for any reason, and the Proponent does not successfully resubmit its proposal by the same or other permitted submission method before Closing Time, the Proponent will not be permitted to resubmit its proposal after Closing Time. The Proponent is strongly advised to contact the Regional District Contact immediately to arrange for an alternative submission method if:
 - (i) the Proponent's email proposal submission is rejected by the Regional District Electronic Mail System: or
 - (ii) the Proponent does not receive an automated response email from the Regional District confirming receipt of each and every message transmitted, within a half hour of transmission by the Proponent.

An alternate submission method may be made available, at the Regional District's discretion, immediately to arrange for an alternative submission method, and it is the Proponent's sole responsibility for ensuring that a complete proposal (and all attachments) submitted using an approved alternate submission method is received by the Regional District before the Closing Time. The Regional District makes no guarantee that an alternative submission method will be available or that the method available will ensure that a Proponent's proposal is received before Closing Time.

1.4 SIGNATURE REQUIRED

Proposals must be properly signed by an officer, employee or agent having authority to bind the Proponent by that signature.

1.5 CLARIFICATIONS, ADDENDA & MINOR IRREGULARITIES

If any Proponent finds any inconsistencies, errors or omissions in the proposal documents or requires information, clarification of any provision contained therein, they shall submit their query in writing or email, addressed as follows:

Purchasing Division Sunshine Coast Regional District 1975 Field Road, Sechelt, BC V7Z 0A8

purchasing@scrd.ca

Any interpretation of, addition to, deletions from or any corrections to the proposal documents will be issued as written addendum by the Regional District.

All Addenda will be posted on BC Bid. It is the sole responsibility of the Proponent to check for Addenda on BC Bid. Proponents are strongly encouraged to subscribe to BC Bid's email notification service to receive notices of Addenda.

1.6 WITHDRAWAL OR REVISIONS

Proposals or revisions may be withdrawn by written notice provided such a notice of withdrawal is received prior to the closing date and time. Proposals withdrawn will be returned to the Proponent unopened. Revisions to the proposals already received shall be submitted only by electronic mail, or signed letter. The revision must state only the amount by which a figure is to be increased or decreased, or specific directions as to the exclusions or inclusion of particular words.

1.7 CONDUCT OF THE CONTRACT

Unless otherwise specified within this document, any queries regarding this Request for Proposal are to be directed to purchasing@scrd.ca. No other verbal or written instruction or information shall be relied upon by the Bidder, nor will they be binding upon the Regional District.

1.8 CONFLICT OF INTEREST/NO LOBBYING

- A Proponent may be disqualified if the Proponent's current or past corporate or other interests, or those of a proposed subcontractor, may, in the Regional District's opinion, give rise to an actual or potential conflict of interest in connection with the services described in the RFP. This includes, but is not limited to, involvement by a Proponent in the preparation of the RFP or a relationship with any employee, contractor or representative of the Regional District involved in preparation of the RFP, participating on the evaluation committee or in the administration of the Contract. If a Proponent is in doubt as to whether there might be a conflict of interest, the Proponent should consult with the Regional District Contact prior to submitting a proposal. By submitting a proposal, the Proponent represents that it is not aware of any circumstances that would give rise to a conflict of interest that is actual or potential, in respect of the RFP.
- (b) A Proponent must not attempt to influence the outcome of the RFP process by engaging in lobbying activities. Any attempt by the Proponent to communicate, for this purpose directly or indirectly with any employee, contractor or representative of the Regional District, including members of the evaluation committee and any elected officials of the Regional District, or with the media, may result in disqualification of the Proponent.

1.9 CONTRACT

By submitting a proposal, the Proponent agrees that should its proposal be successful the Proponent will enter into a Contract with the Regional District on substantially the same terms and Conditions set out in www.scrd.ca/bid and such other terms and conditions to be finalized to the satisfaction of the Regional District, if applicable.

1.10 SUSTAINABLE PROCUREMENT

The Regional District adheres to its sustainable consideration factors. Proposals will be considered not only on the total cost of services, but Proposals that addresses the environment and social factors.

1.11 INVOICING AND PAYMENT

Unless otherwise agreed, the Regional District payment terms are Net 30 days following receipt of services or approved invoices, whichever is later. Original invoices are to be forwarded to the accounts payable department of the Regional District. The purchase order number assigned by the Regional District must be stated on the invoice otherwise payment may be delayed.

1.12 PRICING, CURRENCY AND TAXES

Offered prices are to be attached as a price schedule in Canadian dollars with taxes stated separately when applicable.

1.13 IRREVOCABLE OFFER

This Proposal must be irrevocable for 90 days from the Proposal closing date and time.

1.14 TIME IS OF THE ESSENCE

Time shall be of the essence in this contract.

1.15 ASSIGNMENT

The Proponent will not, without written consent of the Regional District, assign or transfer this contract or any part thereof.

1.16 OWNERSHIP OF DOCUMENTS & FREEDOM OF INFORMATION

All documents submitted in response to this Request for Proposal shall become the property of the Regional District and as such will be subject to the disclosure provisions of the *Freedom of Information and Protection of Privacy Act* and any requirement for disclosure of all or a part of a Proposal under that Act.

The requirement for confidentiality shall not apply to any Proposal that is incorporated into a Contract for the Work. Further, the Regional District may disclose the top scoring proponent's aggregate pricing to the Regional District Board at a public meeting, when making a recommendation for the award of the Contract.

For more information on the application of the Act, go to http://www.cio.gov.bc.ca/cio/priv leg/index.page.

1.17 AWARD OF CONTRACT

The Purchasing Policy at the Regional District offers contracts to businesses through an open, fair and

consistent competitive bidding process. This ensures that the Regional District will receive the best overall value for the goods and services it requires. The Regional District reserves the right to cancel, award all or part of the scope of work described in this document to a single Proponent or may split the award with multiple Proponents.

All awards are subject to Board approval that meets the needs as determined by the Board. The Regional District, in receipt of a submission from a Proponent, may in its sole discretion consider the Proponent to have accepted the terms and conditions herein, except those expressly excluded or changed by the Proponent in writing.

The RFP shall not be construed as an agreement to purchase goods or services. The lowest priced or any proposal will not necessarily be accepted. The RFP does not commit the Regional District in any way to award a contract and that no legal relationship or obligation regarding the procurement of any good or service will be created between Regional District and the proponent unless and until Regional District and the proponent execute a written agreement for the Deliverables

1.18 COST OF PROPOSAL

The Proponent acknowledges and agrees that the Regional District will not be responsible for any costs, expenses, losses, damage or liability incurred by the Proponent as a result of or arising out submitting a Proposal for the proposed contract or the Regional District's acceptance or non-acceptance of their proposal. Further, except as expressly and specifically permitted herein, no Proponent shall have any claim for any compensation of any kind whatsoever, as a result of participating in this RFP, and by submitting a proposal each Proponent shall be deemed to have agreed that it has no claim.

1.19 PROPONENT'S RESPONSIBILITY

It is the Proponent's responsibility to ensure that the terms of reference contained herein are fully understood and to obtain any further information required for this proposal call on its own initiative. The Regional District reserves the right to share, with all proponents, all questions and answers related to this bid call.

1.20 EVALUATIONS

Proposals will be evaluated in private, including proposals that were opened and read in public, if applicable. Proposals will be assessed in accordance with the evaluation criteria.

If only one Proposal is received, the Regional District reserves the right to open the Proposal in private or if the total bid price exceeds the estimated budget for the Contract, the Regional District may cancel and retender, accept, not accept and cancel or re-scope the Work seeking a better response, with or without any substantive changes being made to the solicitation documents. If more than one Proposal is received from the same Proponent, the last Proposal received, as

determined by the Regional District, will be the only Proposal considered.

1.21 ACCEPTANCE OF TERMS

The submission of the Proposal constitutes the agreement of the Proponent that all of the terms and conditions of the RFP are accepted by the Proponent and incorporated in its Proposal, except those conditions and provisions which are expressly excluded and clearly stated as excluded by the Proponent's proposal.

1.22 MANDATORY REQUIREMENTS

Proposals not clearly demonstrating that they meet the mandatory requirements will receive no further consideration during the evaluation process.

1.23 INSURANCE & WCB

The Proponent shall obtain and continuously hold for the term of the contract, insurance coverage with the Regional District Listed as "Additional Insured" the minimum limits of not less than those stated below:

- (a) Commercial General Liability not less than \$2,000,000 per occurrence
- (b) Motor Vehicle Insurance, including Bodily Injury and Property Damage in an amount no less than \$2,000,000 per accident from the Insurance Corporation of British Columbia on any licensed motor vehicles of any kind used to carry out the Work.
- (c) Error & Omissions Insurance not less than \$2,000,000 per occurrence
- (d) A provision requiring the Insurer to give the Owners a minimum of 30 days' notice of cancellation or lapsing or any material change in the insurance policy;

The Proponent must comply with all applicable laws and bylaws within the jurisdiction of the work. The Proponent must further comply with all conditions and safety regulations of the Workers' Compensation Act of British Columbia and must be in good standing during the tern of any contract entered into from this process.

1.24 COLLUSION

Except otherwise specified or as arising by reason of the provisions of these documents, no person, or corporation, other than the Proponent has or will have any interest or share in this proposal or in the proposal contract which may be completed in respect thereof. There is no collusion or arrangement between the Proponent and any other actual or prospective Proponent in connection with proposals submitted for this project and the Proponent has no knowledge of the context of other proposals and has no comparison of figures or agreement or arrangement, express or implied, with any other party in connection with the making of the proposal.

1.25 CONFLICT OF INTEREST

Proponents shall disclose in its Proposal any actual or potential conflict of interest and existing business relationship it may have with the Regional District, its elected or appointed officials or employees.

1.26 LIABILITY FOR ERRORS

While the Regional District has used considerable efforts to ensure an acute representation of information in these bid documents, the information contained is supplied solely as a guideline for Proponents. The information is not guaranteed or warranted to be accurate by the Regional District nor is it necessarily comprehensive or exhaustive.

1.27 TRADE AGREEMENTS

This RFP is covered by trade agreements between the Regional District and other jurisdictions, including the following:

- a) Canadian Free Trade Agreement; and
- b) New West Partnership Trade Agreement.

1.28 LAW

This contract and any resultant award shall be governed by and construed in accordance with the laws of the Province of British Columbia, which shall be deemed the proper law thereof.

1.29 REPRISAL CLAUSE

Tenders will not be accepted by the Regional District from any person, corporation, or other legal entity (the "Party") if the Party, or any officer or director of a corporate Party, is, or has been within a period of two years prior to the tender closing date, engaged either directly or indirectly through another corporation or legal entity in a legal proceeding initiated in any court against the Regional District in relation to any contract with, or works or services provided to, the Regional District; and any such Party is not eligible to submit a tender.

1.30 FORCE MAJEURE (ACT OF GOD)

Neither party shall be liable for any failure of or delay in the performance of this Agreement for the period that such failure or delay is due to causes beyond its reasonable control including but not limited to acts of God, war, strikes or labour disputes, embargoes, government orders or any other force majeure event. The Regional District may terminate the Contract by notice if the event lasts for longer than 30 days.

1.31 CONFIDENTIAL INFORMATION OF PROPONENT

A proponent should identify any information in its proposal or any accompanying documentation supplied in confidence for which confidentiality is to be maintained by Regional District. The confidentiality of such information will be maintained by Regional District, except the total proposed value, which must be publicly released for all proposals, or otherwise required by the Freedom of Information and Protection of Privacy Act ("FOIPPA"), law or by order of a court or tribunal. Proponents are advised that their proposals will, as necessary, be disclosed, on a confidential basis,

to advisers retained by Regional District to advise or assist with the RFP process, including the evaluation of proposals. If a proponent has any questions about the collection and use of personal information pursuant to this RFP, questions are to be submitted to the RFP Contact.

1.32 DISPUTE RESOLUTION

All unresolved disputes arising out of or in connection with this Proposal or in respect of any contractual

relationship associated therewith or derived therewith shall be referred to and finally resolved by arbitration as prescribed by Mediate BC services pursuant to its rules, unless otherwise mutually agreed between the parties.

1.33 DEBRIEFING

At the conclusion of the RFP process, all Proponents will be notified. Proponents may request a debriefing meeting with the Regional District.

2. INTRODUCTION

2.1 Purpose

The SCRD is seeking a team skilled in providing design and engineering services to design a bike skills park and pump track on the decommissioned Gibsons landfill site, which is separate from but located within the Recreation Sites and Trails BC Sprockids Recreation Area polygon. The bike skills park is intended for people of all ages and abilities to develop their biking skills progressively in a controlled environment. A variety of skill levels and experiences would be offered throughout the site. Dependent of site assessment and community engagement, the bike park features could include but are not limited to the following: pump and bump skills loop; pump track; gravity jump trails; dirt jump zone; progressive drop zone. Options for other features/zones as recommended by the Contractor that are best suited to the constraints of the site. The project will include community outreach, surveying, bike park design, landscape design, as well as the creation of plans, specifications and estimates for the eventual public bid for construction of the project. The available budget is \$40,000.00 not including the optional work.

3. SITUATION/OVERVIEW

3.1 Background

The Sprockids Provincial Recreation Area is a 48.3 hectar site located at 1235 Stewart Road in West Howe Sound (Gibsons), British Columbia (BC). It is valued by locals and visitors for it's extensive trail network catering to a wide spectrum of mountain bikers and hikers. Sprockids Recreation Area is separate from but surrounds a closed and decommissioned landfill site which is owned by the Province of BC with the SCRD being responsible for the closure plan and ongoing maintenance of the site.

The closed landfill site was the location of a former bike skills area built in the early 2000's that fell into disrepair and was ultimately was dismanteled. The cycling community still values this space as a prime location for rebuilding a new and modern bike skills /pump track area for all ages and abilities due to its proximity to Sprokids Park trail network and the local neighbourhoods and services.

Due to the potential environmental and personal safety risks of constructing a bike skills park ontop of the decommissioned landfill site, the need to follow the recommendations of the Gibsons Landfill Closure Plan, and Post-Closure Use Guidelines and Best Management Practices are required.

3.2 Project Objectives

Delivery of a complete set of plans, specifications and engineering, engineering surveying and design services needed for future construction of an all ages and abilities bike skills park/pump track built on the decommissioned Gibsons Landfill Site.

3.3 Scope

The scope of work includes tasks required to complete the project and to meet the goals of:

- Organizing and leading community outreach events to gather input on desired features and design that fit within constraints of the site.
- Completing a design focused upon an all ages and abilities public bike park for the decommissioned Gibsons Landfill site that will appeal to the community, use aesthetically pleasing design, and meets all recommendations of the Gibsons Landfill Closure Plan, Post-Closure Use Guidelines and Best Management Practices, Gibsons Landfill, SCRD solid waste, and BC Ministry of Environment Contaminated Sites Branch (see Appendix).
- Due to the potential environmental risks of constructing a bike skills park ontop of a decommissioned landfill site, the need to follow the recommendations of the Gibsons Landfill Closure Plan, Post-Closure Use Guidelines and Best Management Practices is required for approval from SCRD solid waste, and BC Ministry of Environment Contaminated Sites Branch.
- Include landscaping design that complies with closure plan requirements and incorporates local native species as much as possible.
- Recommendations for site preparation, grading, compaction, and storm water runoff will follow the Gibsons Landfill Closure Plan and Post-Closure Use Guidelines and Best Management Practices
- Include options for park furniture placement for accessible picnic tables, pit toilets, access to site from parking lot, recycling and trash receptacles, covered shade/rain area.
- Provide a complete set of plans, specifications and engineering, engineering surveying and design services needed for construction of the project, including preliminary design, engineering, and class B cost estimates, and other specifications for the eventual public bid for construction of the project.
- Provide recommendations for ongoing operational and maintenance requirements and costing.
- Optional Work that may be requested at a later date at the sole discretion of the SCRD the work will include:
 - Tendering support services which includes but is not limited to responding to clarification and technical questions, site meeting attendance and other related duties.
 - Construction administrative management services the work will include but is not limited to: site inspection, progress reports, construction management (invoice review, change order request reviews, etc).

4. CONTRACT

4.1 General Contract Terms and Conditions

Proponents should review carefully the terms and conditions set out in the General Service Contract, including the Schedules. The General Contract terms can be found at: Information about our General Service Terms and Conditions can be found at www.scrd.ca/bid.

4.2 Service Requirements

The Contractor's responsibilities will include the following:

- Engineering and design that follows the Gibsons Landfill Closure Plan, Post-Closure Use Guidelines and Best Management Practices, Gibsons Landfill, SCRD solid waste, and BC Ministry of Environment Contaminated Sites Branch (see Appendix).

- Progress reporting every 2 weeks either by in person meetings or Zoom.

4.3 Related Documents

- Appendix 1 Gibsons Landfill Closure Plan
- Appendix 2 Post Closure Use Guidelines and Best Management Practices Glbsons Landfill
- Appendix 3 Site Map

5. REQUIREMENTS

In order for a proposal to be considered, a Proponent must clearly demonstrate that they meet the mandatory requirements set out in Section 7.1 (Mandatory Criteria) of the RFP.

This section includes "Response Guidelines" which are intended to assist Proponents in the development of their proposals in respect of the weighted criteria set out in Section 7.2 of the RFP. The Response Guidelines are not intended to be comprehensive. Proponents should use their own judgement in determining what information to provide to demonstrate that the Proponent meets or exceeds the Regional District's expectations.

Please address each of the following items in your proposal in the order presented.

5.1 Capabilities

5.1.1 Relevant Experience

Does your organization have 5 years within the past 10 years providing services of a similar scope and complexity. Similar scope and complexity is defined as:

- a) Designing all ages and abilities bike skills parks and pump tracks
- b) Contracting with municipal/regional/provincial governments
- c) Working in compliance with requirements of landfill closure plans and other types of environmental protection plans
- d) Supervising, overseeing, signing off on similar types of construction projects.
- e) Community Engagement Experience

5.1.2 Qualifications

Proponents must have the following qualifications:

a) Civil Engineer (P.Eng) licenced within British Columbia.

Proponents should have the following qualifications:

- b) Architect
- c) Landscape Architect
- d) CAD design

5.1.3 References

Proponents need to provide a minimum of 3 references (i.e. names and contact information) of individuals who can verify the quality of work provided specific to the relevant experience of the Proponent and of any subcontractors named in the proposal.

References from the Proponent's own organization or from named subcontractors are not acceptable.

The Regional District reserves the right to seek additional references independent of those supplied by the Proponent, including internal references in relation to the Proponent's and any subcontractor's performance under any past or current contracts with the Regional District or other verifications as are deemed necessary by it to verify the information contained in the proposal and to confirm the suitability of the Proponent.

5.1.4 Environmental Requirements

Proponents should provide details on how they will meet or exceed the recommendations from the Gibsons Landfill Closure Plan, Post-Closure Use Guidelines and Best Management Practices for approval from SCRD solid waste, and BC Ministry of Environment Contaminated Sites Branch.

5.2 Sustainable Social Procurement

A factor in the Regional District evaluation process is sustainable social procurement and the evaluation of proposals will take this into consideration.

As part of any submission the Proponent is encouraged to identify how they may contribute to the following key social, employment and economical goals, but not limited to the following:

- a) Contribute to a stronger local economy by:
 - promoting a Living Wage
 - Using fair employment practices;
 - Increase training and apprenticeship opportunities;
- b) Local expertise knowledge by:
 - a. Being locally owned;
 - b. Utilization of local subcontractors;
- c) Environmental Cost of Ownership;
- d) Energy efficient products:
- e) Minimal or environmental friendly use of packing materials; and
- f) Reducing hazardous materials (toxics and ozone depleting substances).

5.3 Approach

Proponents should provide a high-level work plan / project schedule which includes start date, project milestones and project completion date. Describe methodology, approach, and outline the process to complete the services as well as optional services. Include features of your services that give you a competitive advantage.

5.4 Price

Proponents need to submit a fee proposal that sets out the separate costs of each project phase described as well as an all-inclusive cost for all the projects; the proposal should include a breakdown of the fixed prices including time, travel, hourly billable rates. Proponents are to provide separate pricing the optional work for tendering and construction management services.

Prices quoted will be deemed to be:

- in Canadian dollars:
- inclusive of duty, FOB destination, and delivery charges where applicable; and
- exclusive of any applicable taxes.

6. PROPOSAL FORMAT

Proponents should ensure that they fully respond to all requirements in the RFP in order to receive full consideration during evaluation.

The following format, sequence, and instructions should be followed in order to provide consistency in Proponent response and ensure each proposal receives full consideration. All pages should be consecutively numbered.

- a) Signed cover page (see section 7.1 Mandatory Criteria).
- b) Table of contents including page numbers.
- c) A short (one or two page) summary of the key features of the proposal.
- d) The body of the proposal, including pricing, i.e. the "Proponent Response".
- e) Appendices, appropriately tabbed and referenced.
- f) Identification of Proponent (legal name)
- g) Identification of Proponent contact (if different from the authorized representative) and contact information.

7. EVALUATION

Evaluation of proposals will be by a committee formed by the Regional District and may include other employees and contractors.

The Regional District's intent is to enter into a Contract with the Proponent who has met all mandatory criteria and minimum scores (if any) and who has the highest overall ranking.

Proposals will be assessed in accordance with the entire requirement of the RFP, including mandatory and weighted criteria.

The Regional District reserves the right to be the sole judge of a qualified proponent.

The Evaluation Committee may, at its discretion, request clarifications or additional information from a Proponent with respect to any Proposal, and the Evaluation Committee may make such requests to only selected Proponents. The Evaluation Committee may consider such clarification or additional information in evaluating a Proposal.

7.1 Mandatory Criteria

Proposals not clearly demonstrating that they meet the following mandatory criteria will be excluded from further consideration during the evaluation process.

Mandatory Criteria

The proposal must be received at the Closing Location before the Closing Time.

Mandatory Criteria

The proposal must be in English.

The proposal must be submitted using one of the submission methods set out on the cover page of the RFP

The proposal must either (1) include a copy of the cover page that is signed by an authorized representative of the Proponent, this is also required for email submissions or (2) be submitted by using the e-bidding key on BC Bid (if applicable), in accordance with the requirements set out in the RFP

The Project Team must include a Civil Engineer (P.Eng) licenced within British Columbia.

7.2 Weighted Criteria

Proposals meeting all of the mandatory criteria will be further assessed against the following weighted criteria.

Weighted Criteria	Weight (%)
Experience	30
Approach	30
Qualifications	20
Sustainable Social Procurement	5
Price	15
TOTAL	100

7.3 Price Evaluation

The lowest priced Proposal will receive full points for pricing. All other prices will be scored using the following formula: lowest priced proposal/price of this proposal* total points available for price.

Appendix 1 Gibsons Landfill Closure Plan



DAYTON & KNIGHT LTD.

Consulting Engineers

P.O. BOX 91247, (612 CLYDE AVENUE), WEST VANCOUVER, BRITISH COLUMBIA, CANADA V7V 3N9 TELEPHONE: (604) 922-3255 FAX: (604) 922-3253

Mr. Dennis Barlow
Waste Management Technician
B.C. Environment
Environmental Protection
15326 - 103 A Avenue
Surrey, B.C. V3R 7A2

May 9, 1996

MAY I 4 1996

S.C.R.D.

Dear Mr. Barlow:

Re: Sunshine Coast Regional District Gibsons Landfill Closure Plan

On behalf of the Sunshine Coast Regional District, we are pleased to submit 3 (three) copies of the Gibsons Landfill Closure Plan.

Yours truly,

Dayton & Knight Ltd.

Daryl J. Sinclair

djs 28.158 encl.

cc: Mr. S. K. Lehmann, Sunshine Coast Regional District Ms. C. Kenny, Sunshine Coast Regional District

SUNSHINE COAST REGIONAL DISTRICT GIBSONS LANDFILL CLOSURE PLAN

1.0 Introduction

This Closure Plan outlines the background and existing conditions (as of December 1995) of the Gibsons Landfill, as well as recommended closure works to protect health and the environment. End use of the site is also addressed.

2.0 Background

The Gibsons Landfill is located on Stewart Road, north of the Town of Gibsons in the Sunshine Coast Regional District (see Figure 1). The landfill site is situated on the southern half of Lots 3 and 4 of D. L. 1507, Group 1, NWD., Plan 3795.

The Gibsons Landfill began operations in the early 1970's and was used for the disposal of municipal solid waste from Electoral Areas D (Roberts Creek), E (Elphinstone) and F (West Howe Sound) and the Town of Gibsons. Permit No. PR-2548 was issued on December 11, 1973 by the Ministry of Environment to the Sunshine Coast Regional District for the operation of the landfill. The authorised rate of discharge was 11.5 m³/day.

The landfill is located in an undeveloped area and occupies approximately 1 to 1.5 ha. A small drainage course runs in a north-south direction immediately to the east of the site.

The landfill operation was generally uncontrolled in which waste was simply dumped and burned. The burn residue was then spread out by machine. Burning of waste at the site was discontinued after 1980. Cover material was obtained from an area adjacent to the site.

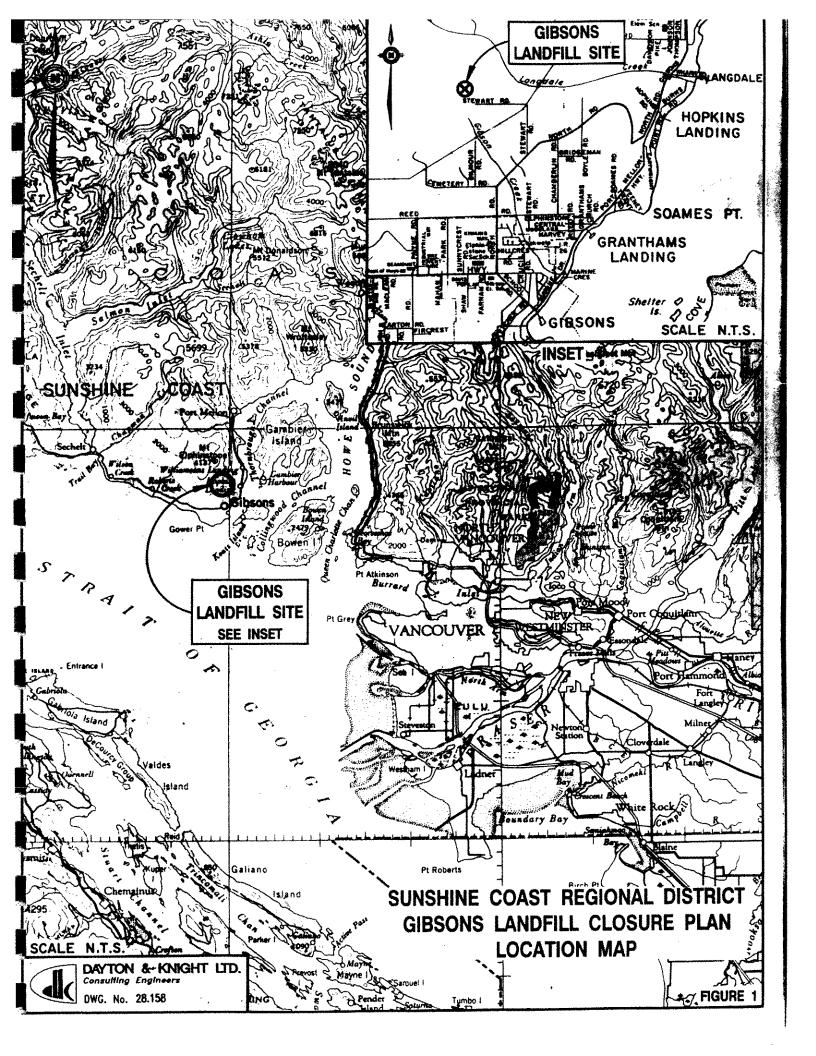
Between 1980 and 1986, the site was restricted to the landfilling of stumps and non-putrescible waste and was only operated seasonally. The landfill was closed in 1986.

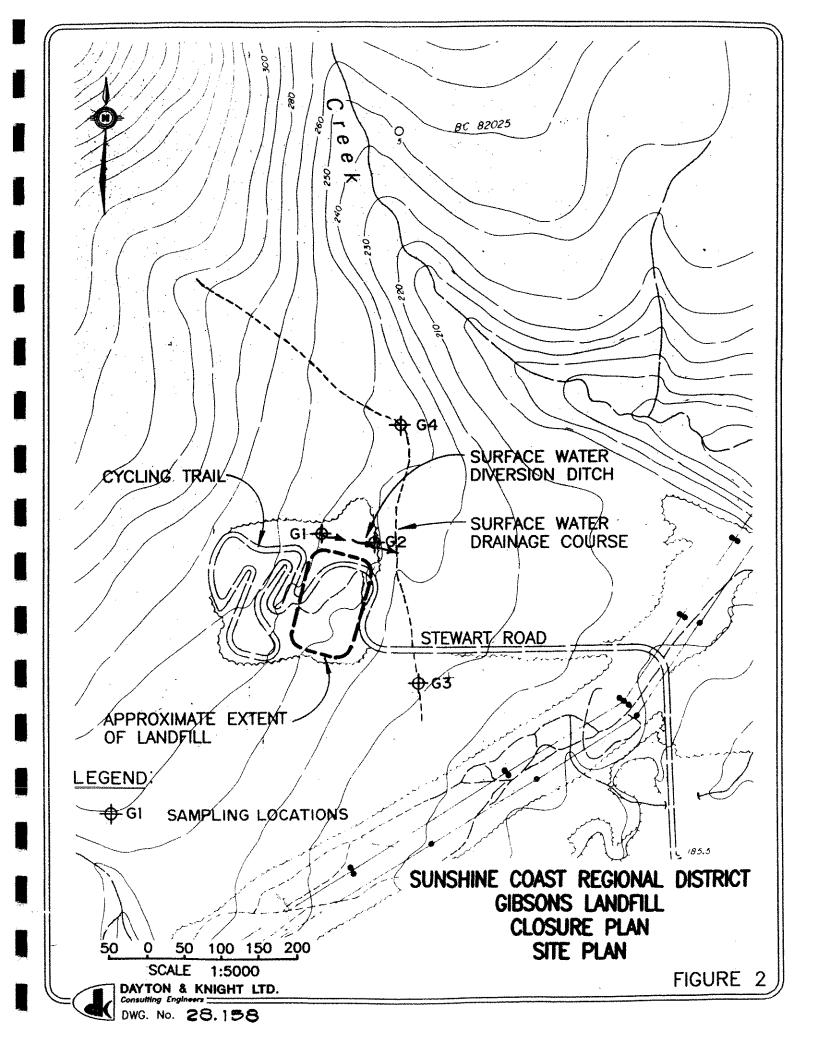
Figure 2 shows the present landfill.

3.0 Present Conditions

The top surface of the landfill is fairly flat compared to surrounding topography and has been stripped of almost all trees. A trail runs along the northern edge of the landfill which is used by cyclists. The site is also used as a picnic area (benches and a picnic table have been placed at the site), especially by cyclists, and some grading has been done to facilitate use of the site for recreational uses.

The entrance to the site is restricted to discourage vehicle access and illegal dumping and a sign has been posted to identify the site and warn against unauthorised use of the





site. There are no other restrictions to access to the site apart from natural topography and vegetation.

Exposed waste is visible along the slopes of the landfill. The top surface of the landfill appears to have a soil cover and very little waste is exposed. Although the top surface has been stripped of trees, a mix of natural vegetation has been established outside graded areas.

Figure 3 illustrates the existing topography of the site (as of January 5, 1996).

4.0 Environmental Monitoring

4.1 Previous Investigation

In February 1991, Dayton & Knight inspected the landfill and found surface water (ditched) flow along the toe of the uppermost lift of the landfill (reference Dayton & Knight Ltd. letter to the Sunshine Coast Regional District dated March 12, 1991). It was concluded that the source of the flow was primarily run-on from areas adjacent to the landfill. It was also observed that surface water runoff had passed through a portion of the landfill and seepage through that embankment appeared to discharge as leachate into the ditched flow, based on colourisation of the water.

In March 1991, two water samples were collected from the ditched flow, upstream and downstream from the suspected leachate breakout discussed above. Comparing upstream to downstream sampling results revealed the following:

- No increase in Chemical or Biochemical Oxygen Demand;
- Very little increase in pH, Total Solids, Specific Conductivity, Total Hardness, Total Kjeldahl Nitrogen and Ammonia; and
- An appreciable increase in Iron from 0.14 mg/L in the upstream sample to 6.06 mg/L in the downstream sample.

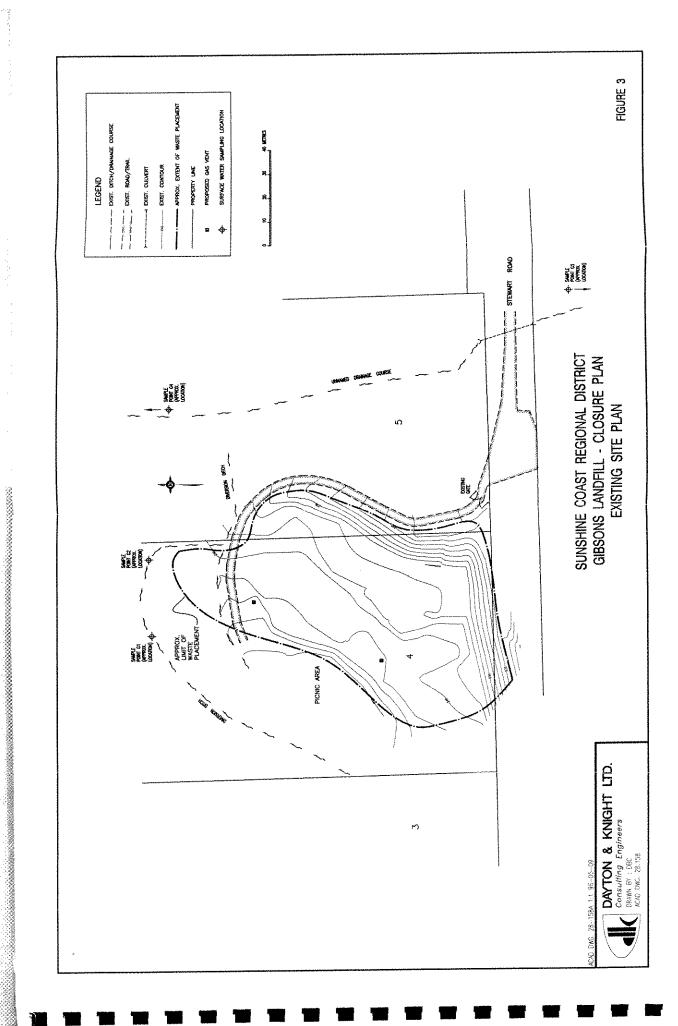
These results indicated some migration of leachate, however, the impact on water quality was minor. The results also show that the landfill is old and has limited presence of leachable materials.

As a result of this investigation, it was recommended that surface water run-on be diverted away from the landfill and that the surface of the landfill be vegetated.

Surface water diversion ditches were subsequently excavated along the upper slopes of the site to divert surface run-on around the landfill.

4.2 1995 Monitoring

On two separate occasions, November 22, 1995 and December 13, 1995, samples were collected from two surface water drainage courses in the vicinity of the site; a diversion ditch upslope from the landfill and the surface water drainage course which runs east of



the site. Both upstream and downstream samples were collected from the two drainage courses.

The samples were analysed for the following parameters:

- pH;
- Specific Conductance;
- · Chemical Oxygen Demand;
- Dissolved Chloride;
- Nitrites plus Nitrates; and
- Dissolved Iron.

Comparing the sampling results in the diversion ditch indicates that there was little difference between upstream and downstream water quality in the samples collected on November 22, 1995. In the samples collected on December 13, 1995, the downstream water quality (Sample Point G2) was slightly changed compared to the upstream water quality (Sample Point G1) as evidenced by higher levels of COD (55 mg/L vs. <10 mg/L, respectively) and Nitrates (0.31 mg/L vs. 0.09 mg/L, respectively).

Comparing the sampling results in the surface water drainage course indicates that there was little difference between upstream and downstream water quality during both sampling events.

The laboratory analytical reports are presented in the Appendix.

From this sampling event, it appears that the landfill is not having an adverse impact on the local environment.

5.0 Closure Plan

The landfill does not appear threatening to health or the environment based on the observations and investigations conducted to date.

The recommendations for closure are given below:

- Place additional cover material as required over the top surface of the landfill to ensure a 4% (minimum) slope is provided for surface water drainage. Upon review of the existing topography of the landfill it is apparent that in general, the top of the landfill is sloped at a grade exceeding 4%. Therefore, it is recommended that only depressions on the surface be filled. The fill material should preferably be a silty or clayey soil, with minimal gravel or larger rocks or other material, having low permeability (less than 1 x 10-5 cm/sec). This material can be obtained from on-site.
- Install two passive landfill gas vents at high points in the cover consisting of 2 metre by 2 metre sand pits extending down into the waste.
- Remove exposed waste located on the slopes of the landfill and dispose either onsite or at the Sechelt Landfill (for large waste items such as white goods or automobiles). Additional cover material should be placed in disturbed areas.

- Place additional signs at the site to identify the site as a former landfill, warn against illegal dumping, list restrictions to use of the site, and list potential hazards posed by the landfill.
- Install permanent barriers (steel posts) to vehicular access from Stewart Road to discourage illegal dumping.
- In addition, areas of the landfill which are disturbed by filling or waste removal, as
 described above, should be vegetated to prevent erosion. Natural vegetation would
 be acceptable. Existing trees and other vegetation should be retained.

Environmental monitoring, hydrogeological investigations or landfill gas assessments would only be required as part of a remedial response to significant leachate migration or similar health or environmental threats.

As discussed above, the site is used for recreational purposes, specifically for cyclists. The site can continue to be used this way following closure, however, it is imperative that users are aware that the site is a former landfill. This requires the posting of signs which clearly identify the site, potential hazards (in particular, fires) and restrictions to use. With respect to restrictions, use or development of the site must not result in damage to the final cover, diversion drainage ditches or vegetative cover, and intrusive work must be prohibited. It is also important that users are warned against starting fires.

Although vehicular access to the site must be restricted, it is important that access to the cycling trail which runs adjacent to the landfill be maintained. The installation of locked steel posts at the end of Stewart Road would prevent unauthorised vehicle entry to the site but permit bicycle access. The need for fencing to discourage unauthorised use or illegal dumping at site may be considered in future if problems arise.

Any proposed development of the site related to the current use of the site for recreational purposes must be reviewed and approved by the Regional District.

6.0 <u>Post-Closure Care</u>

The landfill should be inspected by the Regional District on an annual or semi-annual basis to ensure that the final cover, vegetative cover, signs, gates and diversion ditches are in good condition; to inspect for illegal dumping; to examine the site for potential leachate breakouts; and that use of the site has not affected closure works. In addition, the need for additional improvements to the landfill to protect health and the environment can be identified as conditions warrant.

In addition, samples from the unnamed drainage course which runs east of the landfill should be monitored twice per year for the following parameters:

- pH;
- Specific Conductance;
- Chemical Oxygen Demand;
- Dissolved Chloride;

- Nitrites plus Nitrates; and
- Dissolved Iron.

Inspection and monitoring information should be compiled into an annual report.

7.0 Closure and Post-Closure Costs

7.1 Closure Capital Costs

The anticipated capital costs for closure of the landfill are estimated below:

	Removal of Exposed Waste:	\$	5,000
•	- on-site disposal or transport to Sechelt Landfill Site Grading: - filling depressions with on-site fill for surface drainage - filling areas from which exposed waste was removed		10,000
	- filling excavations for disposal of exposed waste		
_	Re-Vegetation of Disturbed Areas:		1,000
-	2 Passive Gas Vents:		500
•			300
•	Signs: Access Barriers (steel posts):	φ-	500
	Subtotal	\$	17,300
	Contingencies @ 10%	\$_	<u>1,730</u>
	Subtotal	\$	19,030
	GST @ 7%	\$_	1,332
	TOTAL	\$	20,262

The estimated capital costs (1996 dollars) for closure of the landfill is approximately \$20,300.

7.2 Annual Post-Closure Operating Costs

The annual post closure operating costs related to site inspections, monitoring and reporting are estimated to be \$1,000, including GST (1996 dollars).

Dayton & Knight Ltd.

Daryl J. Sinclair

djs 28.158

SUNSHINE COAST REGIONAL DISTRICT GIBSONS LANDFILL CLOSURE PLAN

APPENDIX

Water Sampling - Laboratory Reports

SUNSHINE COAST REGIONAL DISTRICT

Box 800 (5477 Wharf Road), Sechelt, BC V0N 3A0

GIBSONS LANDFILLSURFACE WATER SAMPLES Taken by CATHY KENNY on November 22, 1995

SAMPLE G1 - Beginning of Diversion Ditch

taken at 9:45 a.m.

- water shallow (approx 2 inches deep); rinsed litre sample bottle & lid; filled bottle using small metal sample bottle; filled metal sample bottle; sample was difficult to get; some sedement in ditch was disturbed during sampling

SAMPLE G2 - Diversion Ditch Above Culvert

taken at 9:50 am

- water shallow (approx 2.5 inches deep); rinsed litre sample bottle & lid; filled bottle using small metal sample bottle; filled metal sample bottle; sample was difficult to get; some sedement in ditch was disturbed during sampling

SAMPLE G3 - Unnamed Drainage Course Below Culvert

taken at 10:00 am

good water flow; rinsed litre sample bottle & lid & filled; filled metal sample bottle

SAMPLE G4 - Unnamed Drainage Course Upstream

taken at 10:10 am

good water flow; rinsed litre sample bottle & lid & filled; filled metal sample bottle

Samples are to be analyzed for:

• pH

- specific conductivity, umhos/cm
- chemical oxygen demand, mg/L

• chloride (dissolved), mg/L

- nitrate and nitrite nitrogen (dissolved NO3+NO2), mg/L
- nitrate nitrogen (dissolved NO3), mg/L
- nitrite nitrogen (dissolved NO2)
- iron (dissolved), mg/L



01-Dec-95 Page 1 of 2

ZENON ENVIRONMENTAL LABORATORIES Certificate of Analysis

8577 Commerce Court Burnaby, B.C. Canada V5A 4N5 Tel 604 444 4808 Fax 604 444 4511

Reported To:

SUNSHINE COAST REG. DIST.

Client Code WS

5477 WHARF ROAD

Attention Phone

: CATHY KENNY : (604) 885-2261

BOX 800 SECHELT, BC

: (604) 885-7909

VON 3A0

FAX

Project Information:

Project ID

: GIBSONS LANDFILL

Submitted By: CATHY KENNY

Requisition Forms:

Form 06106710 received on 23-Nov-95 completed on 1-Dec-95

Remarks:

All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses 'MDC' = Minimum Detectable Concentration, '<' = Less than MDC, '--' = Not analyzed 837

Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease 13 1.8

Organic analyses are not corrected for extraction recovery standards except for Isotope

Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 18th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied. Your samples will be retained at Zenon for a period of 30 days from receipt of data or as per contract.

ZENON Project Manager: Carolyn Nelson



01-Dec-95 Page 2 of 2

ANALYTICAL REPORT Form 06106710

Client:

SUNSHINE COAST REG. DIST.

Chent : Project :	TOTAL PARTY I		Zenon ID : Client ID :	95034965 G1	95034966 G2	95034967 G3	95034968 G4
Sparcode	Parameter	Unit	мос				
PHYSICAL 00041220	На	pH units	0.1	5.7	5.7	5.4 18	5.3 15
00111160	Specific Conductance	uS/em	ī	14	23		
GENERAL 01160500	INORGANICS Chemical Oxygen Demand	mg/L	10	43	23	25	20
ANIONS 11041330	Chloride Dissolved	mg/L	0.5	1.9	1.6	2.0	2.1
NITROGEN 11091350	Nitrate+Nitrite (N)	mg/L mg/L	0.02	0.05 0.05	0.35 0.35	0.58 0.58	0.25 0.25
1110CALC 11111354	Nitrate Nitrogen Dissolved Nitrite Nitrogen	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
METALS D Fe-D0031	ISSOLVED Iron Dissolved	mg/L	0.003	0.114	0.038	0.009	< 0.003
			Matrix Sampled on	: Fresh Water : 95/11/22	Fresh Water 95/11/22	Fresh Water 95/11/22	Fresh Water 95/11/22

SUNSHINE COAST REGIONAL DISTRICT

Box 800 (5477 Wharf Road), Sechelt, BC VON 3A0

GIBSONS LANDFILL SURFACE WATER SAMPLES Taken by CATHY KENNY on December 12, 1995

SAMPLE G1 - Beginning of Diversion Ditch

- taken at 12:50 pm

water shallow (approx 2 inches deep); rinsed litre sample bottle & lid; filled bottle using small metal sample bottle; filled metal sample bottle; sample was difficult to get; some sedement in ditch was disturbed during sampling

SAMPLE G2 - Diversion Ditch Above Culvert

taken at 12:53 pm

- water shallow (approx 2.5 inches deep); rinsed litre sample bottle & lid; filled bottle using small metal sample bottle; filled metal sample bottle; sample was difficult to get; some sedement in ditch was disturbed during sampling

SAMPLE G3 - Unnamed Drainage Course Below Culvert

taken at 12:55 pm

- good water flow; rinsed litre sample bottle & lid & filled; filled metal sample bottle

SAMPLE G4 - Unnamed Drainage Course Upstream

taken at 1:00 pm

 good water flow; rinsed litre sample bottle & lid & filled; filled metal sample bottle

Samples are to be analyzed for:

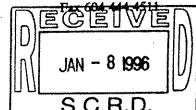
- pH
- specific conductivity, umhos/cm
- chemical oxygen demand, mg/L
- chloride (dissolved), mg/L
- nitrate and nitrite nitrogen (dissolved NO3+NO2), mg/L
- nitrate nitrogen (dissolved NO3), mg/L
- nitrite nitrogen (dissolved NO2)
- iron (dissolved), mg/L



19-Dec-95 Page 1 of 2

ZENON ENVIRONMENTAL LABORATORIES Certificate of Analysis

8577 Commerce Court Burnaby, B.C. Canada V5A 4N5 Tel 604 444 4808



Reported To:

SUNSHINE COAST REG. DIST.

Client Code WS

5477 WHARF ROAD BOX 800 SECHELT, BC

Phone FAX

Attention

: CATHY KENNT : (604) 885-2261 : (604) 885-7909

SECHELT, I

Project Information:

Project ID : GIBSONS LANDFILL Submitted By : CATHY KENNY

Requisition Forms:

Form 06106706 received on 13-Dec-95 completed on 19-Dec-95

Remarks:

All organic data is blank corrected except for PCDD/F, Hi-res MS and CLP volatile analyses

'MDC' = Minimum Detectable Concentration, '<' = Less than MDC, '--' = Not analyzed Solids results are based on dry weight except Biota Analyses & Special Waste Oil & Grease

Organic analyses are not corrected for extraction recovery standards except for Isotope

Dilution methods, (i.e. CARB 429 PAH, all PCDD/F and DBD/DBF analyses)

Methods used by Zenon are based upon those found in 'Standard Methods for the Examination of Water and Wastewater', 18th Edition, published by the American Public Health Association, or on US EPA protocols found in the 'Test Methods For Evaluating Solid Waste, Physical/Chemical Method, SW846', 3rd Edition. Other procedures are based on methodologies accepted by the B.C. Ministry of Environment.

All work recorded herein has been done in accordance with normal professional standards using accepted testing methodologies, quality assurance and quality control procedures except where otherwise agreed to by the client and testing company in writing. Any and all use of these test results shall be limited to the actual cost of the pertinent analysis done. There is no other warranty expressed or implied.

Your samples will be retained at Zenon for a period of 30 days from receipt of data or as per contract.

ZENON Project Manager: Carolyn Nelson

0



19-Dec-95 Page 2 of 2

Client : Project :	SUNSHINE COAST REG. DI GIBSONS LANDFILL	ST.	Zenon ID : Client ID :	95037023 G1	95037024 G2	95037025 G3	95037026 G4
Cusoda	Parameter	Unit	MDC		T.		
Sparcode	\$ 412 PARTY		54				İ
0007122	pH Specific Conductance	pH units uS/cm	0.1 1	5.9 6	5.9 15	5.6 16	5.4
	NORGANICS Chemical Oxygen Demand	mg/L	10	< 10	55	< 10	37
ANIONS 11041330	Chloride Dissolved	mg/L	0.5	1.1	1.4	2.2	1.8
NITROGEN		mg/L	0.02	0.09 0.08	0.31 0.31	0.30 0.30 < 0.005	0.20 0.20 < 0.005
1110CALC Nitrate Nitrogen Dissolved 11111354 Nitrite Nitrogen	mg/L mg/L	0.005	0.006	0,005 < 0.003	₹ 0.003		
METALS I	DISSOLVED	mg/L	0.003	0.095	0.084	0.008	< 0.003
Fe-D0031	Iron Dissolved		Matrix Sampled	: Presh Water on: 95/12/13	Fresh Water 95/12/13	Fresh Water 95/12/13	Fresh Water 95/12/13

Appendix 2 Post Closure Use Guidelines and Best Management Practices Gibsons Landfill

(provided as a separate document)